



Remit To: Energy Laboratories Inc
Accounts Receivable
PO Box 30975
Billings, MT 59107-0975

H126243111600360002320000311404732

Account Number: H12624
Invoice Number: 311160036
Invoice Date: 11/4/2011
Purchase Order: SPB05-894PB
Invoice Total: \$2,320.00
Amount Received: \$0.00
Amount Due: \$2,320.00

Detach and Return Stub with Payment

BILL TO: MT DEQ Solid Waste Section
Attn: Martin Van Oort
PO Box 200901
Helena, MT 59620-0901

INVOICE

Invoice Date: November 04, 2011

Invoice No: 311160036



Purchase Order SPB05-894PB
Account Number H12624

3161 East Lyndale Avenue • Helena, MT 59601
(406) 442-0711

TERMS: NET 30 DAYS
Interest charged after 30 days 1.5% per month.
VISA/MasterCard payments accepted.

Project Name: Mister M Landfill

Item	Remarks	Matrix	Test Price	Mult	Price	Qty	Test Total
WorkOrder H11100280							
Metals by ICP/ICPMS, Dissolved		Aqueous	\$20.00	1	\$20.00	1	\$20.00
Metals by ICP/ICPMS, Dissolved		Aqueous	\$160.00	1	\$160.00	4	\$640.00
Conductivity		Aqueous	\$10.00	1	\$10.00	6	\$60.00
Anions by Ion Chromatography		Aqueous	\$20.00	1	\$20.00	6	\$120.00
Nitrogen, Nitrate + Nitrite		Aqueous	\$20.00	1	\$20.00	5	\$100.00
pH		Aqueous	\$10.00	1	\$10.00	6	\$60.00
8260-Volatile Organic Comp, 40 CFR Part 258 App I		Aqueous	\$220.00	1	\$220.00	6	\$1,320.00

Comments:

Subtotal: \$2,320.00

Order Amount: 2,320.00

INVOICE TOTAL: \$2,320.00

Amount Received: \$0.00

AMOUNT DUE: \$2,320.00

RECEIVED

NOV - 7 2011

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

ANALYTICAL SUMMARY REPORT

November 01, 2011

MT-DEQ Solid Waste Section
PO Box 200901
Helena, MT 59620-0901

Workorder No.: H11100280

Project Name: Mister M Landfill

Energy Laboratories Inc Helena MT received the following 7 samples for MT-DEQ Solid Waste Section on 10/19/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H11100280-001	MrM-MW-11	10/17/11 15:10	10/19/11	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11100280-002	MrM-MW-11-Dup	10/17/11 15:15	10/19/11	Aqueous	Same As Above
H11100280-003	MrM-MW-9R	10/18/11 8:10	10/19/11	Aqueous	Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11100280-004	MrM-MW-OW	10/18/11 10:35	10/19/11	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11100280-005	MrM-MW-12	10/18/11 14:55	10/19/11	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11100280-006	MrM-MW-HW	10/18/11 16:05	10/19/11	Aqueous	Same As Above
H11100280-007	Trip Blank 0928/11EMHCL 1618 041811-3	10/17/11 15:10	10/19/11	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise reported.

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

ANALYTICAL SUMMARY REPORT

Report Approved By:

Wanda Johnson

Login Supervisor

Digitally signed by

Wanda Johnson

Date: 2011.11.03 09:00:38 -06:00

Parameter	Result	Unit	Acceptance	QC	Method	Sample Name
Protein, mg/dL	10.0	mg/dL	10.0	10.0	Protein	Sample 1
Glucose, mg/dL	100	mg/dL	100	100	Glucose	Sample 1
Cholesterol, mg/dL	200	mg/dL	200	200	Cholesterol	Sample 1
Triglycerides, mg/dL	150	mg/dL	150	150	Triglycerides	Sample 1
Urea Nitrogen, mg/dL	10	mg/dL	10	10	Urea Nitrogen	Sample 1
Creatinine, mg/dL	1.0	mg/dL	1.0	1.0	Creatinine	Sample 1
Calcium, mg/dL	10.0	mg/dL	10.0	10.0	Calcium	Sample 1
Phosphorus, mg/dL	3.0	mg/dL	3.0	3.0	Phosphorus	Sample 1
Sodium, mEq/L	140	mEq/L	140	140	Sodium	Sample 1
Potassium, mEq/L	4.0	mEq/L	4.0	4.0	Potassium	Sample 1
Chloride, mEq/L	100	mEq/L	100	100	Chloride	Sample 1
Bicarbonate, mEq/L	24	mEq/L	24	24	Bicarbonate	Sample 1
Glucose, mg/dL	100	mg/dL	100	100	Glucose	Sample 2
Cholesterol, mg/dL	200	mg/dL	200	200	Cholesterol	Sample 2
Triglycerides, mg/dL	150	mg/dL	150	150	Triglycerides	Sample 2
Urea Nitrogen, mg/dL	10	mg/dL	10	10	Urea Nitrogen	Sample 2
Creatinine, mg/dL	1.0	mg/dL	1.0	1.0	Creatinine	Sample 2
Calcium, mg/dL	10.0	mg/dL	10.0	10.0	Calcium	Sample 2
Phosphorus, mg/dL	3.0	mg/dL	3.0	3.0	Phosphorus	Sample 2
Sodium, mEq/L	140	mEq/L	140	140	Sodium	Sample 2
Potassium, mEq/L	4.0	mEq/L	4.0	4.0	Potassium	Sample 2
Chloride, mEq/L	100	mEq/L	100	100	Chloride	Sample 2
Bicarbonate, mEq/L	24	mEq/L	24	24	Bicarbonate	Sample 2
Glucose, mg/dL	100	mg/dL	100	100	Glucose	Sample 3
Cholesterol, mg/dL	200	mg/dL	200	200	Cholesterol	Sample 3
Triglycerides, mg/dL	150	mg/dL	150	150	Triglycerides	Sample 3
Urea Nitrogen, mg/dL	10	mg/dL	10	10	Urea Nitrogen	Sample 3
Creatinine, mg/dL	1.0	mg/dL	1.0	1.0	Creatinine	Sample 3
Calcium, mg/dL	10.0	mg/dL	10.0	10.0	Calcium	Sample 3
Phosphorus, mg/dL	3.0	mg/dL	3.0	3.0	Phosphorus	Sample 3
Sodium, mEq/L	140	mEq/L	140	140	Sodium	Sample 3
Potassium, mEq/L	4.0	mEq/L	4.0	4.0	Potassium	Sample 3
Chloride, mEq/L	100	mEq/L	100	100	Chloride	Sample 3
Bicarbonate, mEq/L	24	mEq/L	24	24	Bicarbonate	Sample 3

ANALYTICAL SUMMARY REPORT

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LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-001
Client Sample ID MrM-MW-11

Report Date: 11/01/11
Collection Date: 10/17/11 15:10
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/19/11 17:12 / cmm
Conductivity	620	umhos/cm		1		A2510 B	10/19/11 14:45 / cmm
INORGANICS							
Chloride	2	mg/L		1		E300.0	10/20/11 18:53 / zeg
Sulfate	38	mg/L		1		E300.0	10/20/11 18:53 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/26/11 13:04 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		SW6020	10/23/11 17:17 / dck
Arsenic	ND	mg/L		0.005		SW6020	10/23/11 17:17 / dck
Barium	ND	mg/L		0.1		SW6020	10/23/11 17:17 / dck
Beryllium	ND	mg/L		0.001		SW6020	10/23/11 17:17 / dck
Cadmium	ND	mg/L		0.001		SW6020	10/23/11 17:17 / dck
Chromium	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
Cobalt	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
Copper	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
Iron	0.22	mg/L		0.03		SW6020	10/23/11 17:17 / dck
Lead	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
Nickel	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
Selenium	ND	mg/L		0.005		SW6020	10/23/11 17:17 / dck
Silver	ND	mg/L		0.005		SW6020	10/23/11 17:17 / dck
Thallium	ND	mg/L		0.005		SW6020	10/23/11 17:17 / dck
Vanadium	ND	mg/L		0.1		SW6020	10/23/11 17:17 / dck
Zinc	ND	mg/L		0.01		SW6020	10/23/11 17:17 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 15:25 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 15:25 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-001
Client Sample ID MrM-MW-11

Report Date: 11/01/11
Collection Date: 10/17/11 15:10
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 15:25 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 15:25 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 15:25 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 15:25 / abb
Surr: 1,2-Dichloroethane-d4	118	%REC		70-130		SW8260B	10/31/11 15:25 / abb
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/31/11 15:25 / abb
Surr: p-Bromofluorobenzene	104	%REC		70-130		SW8260B	10/31/11 15:25 / abb
Surr: Toluene-d8	98.0	%REC		70-130		SW8260B	10/31/11 15:25 / abb

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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-002
Client Sample ID MrM-MW-11-Dup

Report Date: 11/01/11
Collection Date: 10/17/11 15:15
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/19/11 17:20 / cmm
Conductivity	623	umhos/cm		1		A2510 B	10/19/11 14:46 / cmm
INORGANICS							
Chloride	2	mg/L		1		E300.0	10/20/11 19:34 / zeg
Sulfate	38	mg/L		1		E300.0	10/20/11 19:34 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/26/11 13:07 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		SW6020	10/23/11 17:44 / dck
Arsenic	ND	mg/L		0.005		SW6020	10/23/11 17:44 / dck
Barium	ND	mg/L		0.1		SW6020	10/23/11 17:44 / dck
Beryllium	ND	mg/L		0.001		SW6020	10/23/11 17:44 / dck
Cadmium	ND	mg/L		0.001		SW6020	10/23/11 17:44 / dck
Chromium	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
Cobalt	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
Copper	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
Iron	0.19	mg/L		0.03		SW6020	10/23/11 17:44 / dck
Lead	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
Nickel	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
Selenium	ND	mg/L		0.005		SW6020	10/23/11 17:44 / dck
Silver	ND	mg/L		0.005		SW6020	10/23/11 17:44 / dck
Thallium	ND	mg/L		0.005		SW6020	10/23/11 17:44 / dck
Vanadium	ND	mg/L		0.1		SW6020	10/23/11 17:44 / dck
Zinc	ND	mg/L		0.01		SW6020	10/23/11 17:44 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 15:57 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 15:57 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-002
Client Sample ID MrM-MW-11-Dup

Report Date: 11/01/11
Collection Date: 10/17/11 15:15
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 15:57 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 15:57 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 15:57 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 15:57 / abb
Surr: 1,2-Dichloroethane-d4	123	%REC		70-130		SW8260B	10/31/11 15:57 / abb
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/31/11 15:57 / abb
Surr: p-Bromofluorobenzene	108	%REC		70-130		SW8260B	10/31/11 15:57 / abb
Surr: Toluene-d8	99.0	%REC		70-130		SW8260B	10/31/11 15:57 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-003
Client Sample ID: MrM-MW-9R

Report Date: 11/01/11
Collection Date: 10/18/11 08:10
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.4	s.u.		0.1		A4500-H B	10/19/11 17:27 / cmm
Conductivity	994	umhos/cm		1		A2510 B	10/19/11 14:46 / cmm
INORGANICS							
Chloride	28	mg/L		1		E300.0	10/20/11 19:47 / zeg
Sulfate	56	mg/L		1		E300.0	10/20/11 19:47 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.93	mg/L		0.01		E353.2	10/26/11 13:09 / reh
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 16:29 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 16:29 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Dichlorodifluoromethane	0.40	ug/L	J	1.0		SW8260B	10/31/11 16:29 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
cis-1,2-Dichloroethene	15	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 16:29 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-003
Client Sample ID: MrM-MW-9R

Report Date: 11/01/11
Collection Date: 10/18/11 08:10
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 16:29 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 16:29 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Tetrachloroethene	0.84	ug/L	J	1.0		SW8260B	10/31/11 16:29 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Trichloroethene	0.45	ug/L	J	1.0		SW8260B	10/31/11 16:29 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 16:29 / abb
Surr: 1,2-Dichloroethane-d4	112	%REC		70-130		SW8260B	10/31/11 16:29 / abb
Surr: Dibromofluoromethane	104	%REC		70-130		SW8260B	10/31/11 16:29 / abb
Surr: p-Bromofluorobenzene	102	%REC		70-130		SW8260B	10/31/11 16:29 / abb
Surr: Toluene-d8	101	%REC		70-130		SW8260B	10/31/11 16:29 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by: [Name]

Client: [Name]
 Project: [Name]
 Lab ID: [Name]
 Client Address: [Name]
 Report Date: [Name]
 Date Rec'd: [Name]
 Date Issued: [Name]
 Analyst: [Name]

Parameter	Unit	Result	Reference Range
Glucose	mg/dL	100	70-100
Insulin	µU/mL	10	5-20
C-peptide	ng/mL	1.0	0.5-2.0
HbA1c	%	5.7	4.0-5.6
Uric Acid	mg/dL	4.0	3.0-8.0
Urea Nitrogen	mg/dL	10	8-20
Creatinine	mg/dL	1.0	0.6-1.2
BUN/Cr Ratio	mg/dL	10	10-20
Electrolytes	mmol/L	135	135-145
Sodium	mmol/L	135	135-145
Potassium	mmol/L	4.0	3.5-5.0
Calcium	mmol/L	2.0	1.8-2.2
Magnesium	mmol/L	0.8	0.7-1.0
Phosphorus	mmol/L	2.5	2.5-4.5
Bilirubin	mg/dL	1.0	0.1-1.2
ALT	U/L	40	0-40
AST	U/L	40	0-40
ALP	U/L	100	0-100
Gamma-GT	U/L	40	0-40
Triglycerides	mg/dL	100	0-150
Total Cholesterol	mg/dL	200	0-200
HDL Cholesterol	mg/dL	50	0-100
LDL Cholesterol	mg/dL	130	0-160
VLDL Cholesterol	mg/dL	20	0-40
Protein	g/dL	7.0	6.0-8.0
Albumin	g/dL	4.0	3.5-5.0
Pre-albumin	g/dL	0.2	0.1-0.3
Transferrin	g/dL	2.0	1.5-2.5
Fibrinogen	g/dL	0.5	0.3-0.5
D-Dimer	µg/mL	0.1	0.0-0.1
Prothrombin Time	sec	12.0	11.0-13.0
Partial Thromboplastin Time	sec	30.0	28.0-32.0
Fibrinolytic Activity	g/L	0.5	0.3-0.7
Factor VIII	%	100	80-120
Factor IX	%	100	80-120
Factor X	%	100	80-120
Factor XI	%	100	80-120
Factor XII	%	100	80-120
Factor XIII	%	100	80-120
Factor XIV	%	100	80-120
Factor XV	%	100	80-120
Factor XVI	%	100	80-120
Factor XVII	%	100	80-120
Factor XVIII	%	100	80-120
Factor XIX	%	100	80-120
Factor XX	%	100	80-120
Factor XXI	%	100	80-120
Factor XXII	%	100	80-120
Factor XXIII	%	100	80-120
Factor XXIV	%	100	80-120
Factor XXV	%	100	80-120
Factor XXVI	%	100	80-120
Factor XXVII	%	100	80-120
Factor XXVIII	%	100	80-120
Factor XXIX	%	100	80-120
Factor XXX	%	100	80-120

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-004
Client Sample ID MrM-MW-OW

Report Date: 11/01/11
Collection Date: 10/18/11 10:35
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/19/11 17:34 / cmm
Conductivity	676	umhos/cm		1		A2510 B	10/19/11 14:47 / cmm
INORGANICS							
Chloride	5	mg/L		1		E300.0	10/20/11 20:01 / zeg
Sulfate	30	mg/L		1		E300.0	10/20/11 20:01 / zeg
METALS, DISSOLVED							
Iron	1.22	mg/L		0.03		SW6020	10/23/11 17:50 / dck
Zinc	1.03	mg/L		0.01		SW6020	10/23/11 17:50 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 17:00 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 17:00 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Carbon disulfide	1.2	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
cis-1,2-Dichloroethene	5.7	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 17:00 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-004
Client Sample ID MrM-MW-OW

Report Date: 11/01/11
Collection Date: 10/18/11 10:35
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 17:00 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 17:00 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Styrene	0.40	ug/L	J	1.0		SW8260B	10/31/11 17:00 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 17:00 / abb
Surr: 1,2-Dichloroethane-d4	129	%REC		70-130		SW8260B	10/31/11 17:00 / abb
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	10/31/11 17:00 / abb
Surr: p-Bromofluorobenzene	105	%REC		70-130		SW8260B	10/31/11 17:00 / abb
Surr: Toluene-d8	99.0	%REC		70-130		SW8260B	10/31/11 17:00 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-005
Client Sample ID MrM-MW-12

Report Date: 11/01/11
Collection Date: 10/18/11 14:55
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	10/19/11 17:42 / cmm
Conductivity	663	umhos/cm		1		A2510 B	10/19/11 14:47 / cmm
INORGANICS							
Chloride	4	mg/L		1		E300.0	10/20/11 20:14 / zeg
Sulfate	31	mg/L		1		E300.0	10/20/11 20:14 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.03	mg/L		0.01		E353.2	10/26/11 13:10 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		SW6020	10/23/11 17:57 / dck
Arsenic	ND	mg/L		0.005		SW6020	10/23/11 17:57 / dck
Barium	ND	mg/L		0.1		SW6020	10/23/11 17:57 / dck
Beryllium	ND	mg/L		0.001		SW6020	10/23/11 17:57 / dck
Cadmium	ND	mg/L		0.001		SW6020	10/23/11 17:57 / dck
Chromium	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
Cobalt	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
Copper	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
Iron	0.59	mg/L		0.03		SW6020	10/23/11 17:57 / dck
Lead	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
Nickel	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
Selenium	ND	mg/L		0.005		SW6020	10/23/11 17:57 / dck
Silver	ND	mg/L		0.005		SW6020	10/23/11 17:57 / dck
Thallium	ND	mg/L		0.005		SW6020	10/23/11 17:57 / dck
Vanadium	ND	mg/L		0.1		SW6020	10/23/11 17:57 / dck
Zinc	ND	mg/L		0.01		SW6020	10/23/11 17:57 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 17:32 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 17:32 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-005
Client Sample ID MrM-MW-12

Report Date: 11/01/11
Collection Date: 10/18/11 14:55
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 17:32 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 17:32 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 17:32 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 17:32 / abb
Surr: 1,2-Dichloroethane-d4	119	%REC		70-130		SW8260B	10/31/11 17:32 / abb
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/31/11 17:32 / abb
Surr: p-Bromofluorobenzene	104	%REC		70-130		SW8260B	10/31/11 17:32 / abb
Surr: Toluene-d8	100	%REC		70-130		SW8260B	10/31/11 17:32 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-006
Client Sample ID: MrM-MW-HW

Report Date: 11/01/11
Collection Date: 10/18/11 16:05
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	10/19/11 17:49 / cmm
Conductivity	754	umhos/cm		1		A2510 B	10/19/11 14:48 / cmm
INORGANICS							
Chloride	7	mg/L		1		E300.0	10/20/11 20:28 / zeg
Sulfate	30	mg/L		1		E300.0	10/20/11 20:28 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.01	mg/L		0.01		E353.2	10/26/11 13:11 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		SW6020	10/23/11 18:04 / dck
Arsenic	ND	mg/L		0.005		SW6020	10/23/11 18:04 / dck
Barium	ND	mg/L		0.1		SW6020	10/23/11 18:04 / dck
Beryllium	ND	mg/L		0.001		SW6020	10/23/11 18:04 / dck
Cadmium	ND	mg/L		0.001		SW6020	10/23/11 18:04 / dck
Chromium	ND	mg/L		0.01		SW6020	10/23/11 18:04 / dck
Cobalt	ND	mg/L		0.01		SW6020	10/23/11 18:04 / dck
Copper	ND	mg/L		0.01		SW6020	10/23/11 18:04 / dck
Iron	ND	mg/L		0.03		SW6020	10/23/11 18:04 / dck
Lead	ND	mg/L		0.01		SW6020	10/23/11 18:04 / dck
Nickel	ND	mg/L		0.01		SW6020	10/23/11 18:04 / dck
Selenium	ND	mg/L		0.005		SW6020	10/23/11 18:04 / dck
Silver	ND	mg/L		0.005		SW6020	10/23/11 18:04 / dck
Thallium	ND	mg/L		0.005		SW6020	10/23/11 18:04 / dck
Vanadium	ND	mg/L		0.1		SW6020	10/23/11 18:04 / dck
Zinc	0.02	mg/L		0.01		SW6020	10/23/11 18:04 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/31/11 18:03 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/31/11 18:03 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-006
Client Sample ID MrM-MW-HW

Report Date: 11/01/11
Collection Date: 10/18/11 16:05
Date Received: 10/19/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/31/11 18:03 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/31/11 18:03 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/31/11 18:03 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/31/11 18:03 / abb
Surr: 1,2-Dichloroethane-d4	120	%REC		70-130		SW8260B	10/31/11 18:03 / abb
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/31/11 18:03 / abb
Surr: p-Bromofluorobenzene	107	%REC		70-130		SW8260B	10/31/11 18:03 / abb
Surr: Toluene-d8	98.0	%REC		70-130		SW8260B	10/31/11 18:03 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-007
Client Sample ID Trip Blank 0928/11EMHCL 1618 041811-3

Report Date: 11/01/11
Collection Date: 10/17/11 15:10
Date Received: 10/19/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	10/24/11 19:41 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	10/24/11 19:41 / abb
Benzene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Bromoform	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Chloroform	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
2-Hexanone	ND	ug/L		20		SW8260B	10/24/11 19:41 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	10/24/11 19:41 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	10/24/11 19:41 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Styrene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Toluene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section
Project: Mister M Landfill
Lab ID: H11100280-007
Client Sample ID Trip Blank 0928/11EMHCL 1618 041811-3

Report Date: 11/01/11
Collection Date: 10/17/11 15:10
Date Received: 10/19/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
m-p-Xylenes	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	10/24/11 19:41 / abb
Surr: 1,2-Dichloroethane-d4	118	%REC		70-130		SW8260B	10/24/11 19:41 / abb
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	10/24/11 19:41 / abb
Surr: p-Bromofluorobenzene	103	%REC		70-130		SW8260B	10/24/11 19:41 / abb
Surr: Toluene-d8	107	%REC		70-130		SW8260B	10/24/11 19:41 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B		Analytical Run: COND_111019A								
Sample ID: ICV1_111019A		Initial Calibration Verification Standard								10/19/11 10:51
Conductivity		986	umhos/cm	1.0	99	90	110			
Method: A2510 B		Batch: 111019A-COND-PROBE-W								
Sample ID: H11100271-001ADUP		Sample Duplicate								10/19/11 10:54
Conductivity		609	umhos/cm	1.0				0.1	10	
Sample ID: H11100282-002ADUP		Sample Duplicate								10/19/11 15:31
Conductivity		1250	umhos/cm	1.0				0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: MAN-TECH_111019B		
Sample ID: CCV1-2199		Continuing Calibration Verification Standard								10/19/11 16:17
pH		3.92	s.u.	0.10	98	97	103			
Sample ID: CCV-2145		Continuing Calibration Verification Standard								10/19/11 16:20
pH		7.00	s.u.	0.10	100	98	102			
Sample ID: ICV-2100		Initial Calibration Verification Standard								10/19/11 16:26
pH		7.00	s.u.	0.10	100	98	102			
Method: A4500-H B								Batch: R75436		
Sample ID: CCV3-2041		Continuing Calibration Verification Standard				Run: MAN-TECH_111019B				10/19/11 16:23
pH		10.0	s.u.	0.10	100	99	101			
Sample ID: H11100271-001ADUP		Sample Duplicate				Run: MAN-TECH_111019B				10/19/11 16:57
pH		8.10	s.u.	0.10				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

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Client: MT-DEQ Solid Waste Section

Project: Mister M Landfill

Report Date: 11/01/11

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Analytical Run: IC102-H_111020A
Sample ID: ICV102011-12	2	Initial Calibration Verification Standard								10/20/11 16:37
Chloride		100	mg/L	1.0	100	90	110			
Sulfate		390	mg/L	1.0	98	90	110			
Sample ID: CCV102011-15	2	Continuing Calibration Verification Standard								10/20/11 17:18
Chloride		100	mg/L	1.0	104	90	110			
Sulfate		400	mg/L	1.0	99	90	110			
Method: E300.0										Batch: R75479
Sample ID: ICB102011-13	2	Method Blank								Run: IC102-H_111020A 10/20/11 16:50
Chloride		ND	mg/L	0.02						
Sulfate		ND	mg/L	0.02						
Sample ID: LFB102011-14	2	Laboratory Fortified Blank								Run: IC102-H_111020A 10/20/11 17:04
Chloride		49	mg/L	1.0	97	90	110			
Sulfate		190	mg/L	1.1	95	90	110			
Sample ID: H11100280-001AMS	2	Sample Matrix Spike								Run: IC102-H_111020A 10/20/11 19:06
Chloride		53	mg/L	1.0	102	90	110			
Sulfate		240	mg/L	1.1	100	90	110			
Sample ID: H11100280-001AMSD	2	Sample Matrix Spike Duplicate								Run: IC102-H_111020A 10/20/11 19:20
Chloride		55	mg/L	1.0	104	90	110	2.1	20	
Sulfate		240	mg/L	1.1	102	90	110	1.7	20	

Qualifiers:

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ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Analytical Run: FIA203-HE_111026B
Sample ID: ICV		Initial Calibration Verification Standard								10/26/11 12:51
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.010	102	90	110			
Sample ID: CCV		Continuing Calibration Verification Standard								10/26/11 12:54
Nitrogen, Nitrate+Nitrite as N		0.512	mg/L	0.010	102	90	110			
Sample ID: ICB		Initial Calibration Blank, Instrument Blank								10/26/11 12:57
Nitrogen, Nitrate+Nitrite as N		-0.00624	mg/L	0.010		0	0			
Method: E353.2										Batch: R75631
Sample ID: LCS		Laboratory Control Sample								Run: FIA203-HE_111026B
Nitrogen, Nitrate+Nitrite as N		24.5	mg/L	0.20	101	90	110			10/26/11 12:52
Sample ID: LFB		Laboratory Fortified Blank								Run: FIA203-HE_111026B
Nitrogen, Nitrate+Nitrite as N		0.990	mg/L	0.010	99	90	110			10/26/11 12:53
Sample ID: MBLK		Method Blank								Run: FIA203-HE_111026B
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.0009						10/26/11 12:58
Sample ID: H11100280-001CMS		Sample Matrix Spike								Run: FIA203-HE_111026B
Nitrogen, Nitrate+Nitrite as N		1.000	mg/L	0.010	100	90	110			10/26/11 13:05
Sample ID: H11100280-001CMSD		Sample Matrix Spike Duplicate								Run: FIA203-HE_111026B
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.010	101	90	110	1.8	20	10/26/11 13:06

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020		Analytical Run: ICPMS204-B_111022C								
Sample ID: ICV STD		16 Initial Calibration Verification Standard								10/22/11 21:07
Antimony		0.0496	mg/L	0.0010	99	90	110			
Arsenic		0.0503	mg/L	0.0010	101	90	110			
Barium		0.0506	mg/L	0.0010	101	90	110			
Beryllium		0.0262	mg/L	0.0010	105	90	110			
Cadmium		0.0261	mg/L	0.0010	104	90	110			
Chromium		0.0506	mg/L	0.0010	101	90	110			
Cobalt		0.0516	mg/L	0.0010	103	90	110			
Copper		0.0515	mg/L	0.0010	103	90	110			
Iron		0.253	mg/L	0.0010	101	90	110			
Lead		0.0494	mg/L	0.0010	99	90	110			
Nickel		0.0513	mg/L	0.0010	103	90	110			
Selenium		0.0510	mg/L	0.0010	102	90	110			
Silver		0.0243	mg/L	0.0010	97	90	110			
Thallium		0.0500	mg/L	0.0010	100	90	110			
Vanadium		0.0503	mg/L	0.0010	101	90	110			
Zinc		0.0514	mg/L	0.0010	103	90	110			
Sample ID: ICV STD		16 Initial Calibration Verification Standard								10/23/11 08:25
Antimony		0.0504	mg/L	0.0010	101	90	110			
Arsenic		0.0512	mg/L	0.0010	102	90	110			
Barium		0.0508	mg/L	0.0010	102	90	110			
Beryllium		0.0255	mg/L	0.0010	102	90	110			
Cadmium		0.0265	mg/L	0.0010	106	90	110			
Chromium		0.0519	mg/L	0.0010	104	90	110			
Cobalt		0.0513	mg/L	0.0010	103	90	110			
Copper		0.0526	mg/L	0.0010	105	90	110			
Iron		0.247	mg/L	0.0010	99	90	110			
Lead		0.0503	mg/L	0.0010	101	90	110			
Nickel		0.0519	mg/L	0.0010	104	90	110			
Selenium		0.0497	mg/L	0.0010	99	90	110			
Silver		0.0247	mg/L	0.0010	99	90	110			
Thallium		0.0503	mg/L	0.0010	101	90	110			
Vanadium		0.0514	mg/L	0.0010	103	90	110			
Zinc		0.0536	mg/L	0.0010	107	90	110			
Method: SW6020		Batch: R75571								
Sample ID: ICB		16 Method Blank								Run: ICPMS204-B_111022C
Antimony		ND	mg/L	7E-06						10/22/11 22:28
Arsenic		ND	mg/L	3E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	9E-06						

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: R75571
Sample ID: ICB	16	Method Blank						Run: ICPMS204-B_111022C		10/22/11 22:28
Copper		ND	mg/L		3E-05					
Iron		ND	mg/L		0.0002					
Lead		ND	mg/L		1.0E-05					
Nickel		ND	mg/L		5E-05					
Selenium		ND	mg/L		4E-05					
Silver		ND	mg/L		3E-05					
Thallium		ND	mg/L		7E-06					
Vanadium		ND	mg/L		1E-05					
Zinc		ND	mg/L		0.0003					
Sample ID: LFB	16	Laboratory Fortified Blank						Run: ICPMS204-B_111022C		10/22/11 22:35
Antimony		0.0453	mg/L	0.0010	91	80	120			
Arsenic		0.0484	mg/L	0.0010	97	80	120			
Barium		0.0470	mg/L	0.0010	94	80	120			
Beryllium		0.0510	mg/L	0.0010	102	80	120			
Cadmium		0.0470	mg/L	0.0010	94	80	120			
Chromium		0.0487	mg/L	0.0010	97	80	120			
Cobalt		0.0482	mg/L	0.0010	96	80	120			
Copper		0.0478	mg/L	0.0010	96	80	120			
Iron		4.85	mg/L	0.0010	97	80	120			
Lead		0.0481	mg/L	0.0010	96	80	120			
Nickel		0.0477	mg/L	0.0010	95	80	120			
Selenium		0.0493	mg/L	0.0010	99	80	120			
Silver		0.0183	mg/L	0.0010	91	80	120			
Thallium		0.0484	mg/L	0.0010	97	80	120			
Vanadium		0.0488	mg/L	0.0010	98	80	120			
Zinc		0.0492	mg/L	0.0010	98	80	120			
Sample ID: H11100280-001BMS	16	Sample Matrix Spike						Run: ICPMS204-B_111022C		10/23/11 17:24
Antimony		0.0465	mg/L	0.0050	93	75	125			
Arsenic		0.0492	mg/L	0.0050	98	75	125			
Barium		0.0874	mg/L	0.10	97	75	125			
Beryllium		0.0499	mg/L	0.0010	100	75	125			
Cadmium		0.0473	mg/L	0.0010	95	75	125			
Chromium		0.0503	mg/L	0.010	100	75	125			
Cobalt		0.0496	mg/L	0.010	99	75	125			
Copper		0.0486	mg/L	0.010	97	75	125			
Iron		4.92	mg/L	0.030	94	75	125			
Lead		0.0488	mg/L	0.010	98	75	125			
Nickel		0.0488	mg/L	0.010	97	75	125			
Selenium		0.0459	mg/L	0.0050	92	75	125			
Silver		0.0189	mg/L	0.0050	94	75	125			
Thallium		0.0484	mg/L	0.0050	97	75	125			
Vanadium		0.0508	mg/L	0.10	102	75	125			
Zinc		0.0496	mg/L	0.010	94	75	125			

Qualifiers:

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QA/QC Summary Report

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Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: R75571
Sample ID: H11100280-001BMS	16	Sample Matrix Spike		Run: ICPMS204-B_111022C				10/23/11 17:24		
Sample ID: H11100280-001BMSD	16	Sample Matrix Spike Duplicate		Run: ICPMS204-B_111022C				10/23/11 17:30		
Antimony		0.0470	mg/L	0.0050	94	75	125	1.1	20	
Arsenic		0.0497	mg/L	0.0050	99	75	125	1.0	20	
Barium		0.0871	mg/L	0.10	96	75	125		20	
Beryllium		0.0495	mg/L	0.0010	99	75	125	0.7	20	
Cadmium		0.0478	mg/L	0.0010	96	75	125	1.1	20	
Chromium		0.0504	mg/L	0.010	101	75	125	0.3	20	
Cobalt		0.0506	mg/L	0.010	101	75	125	1.9	20	
Copper		0.0489	mg/L	0.010	97	75	125	0.6	20	
Iron		4.84	mg/L	0.030	92	75	125	1.5	20	
Lead		0.0496	mg/L	0.010	99	75	125	1.6	20	
Nickel		0.0490	mg/L	0.010	97	75	125	0.5	20	
Selenium		0.0456	mg/L	0.0050	91	75	125	0.6	20	
Silver		0.0185	mg/L	0.0050	92	75	125	2.2	20	
Thallium		0.0486	mg/L	0.0050	97	75	125	0.5	20	
Vanadium		0.0506	mg/L	0.10	101	75	125		20	
Zinc		0.0492	mg/L	0.010	94	75	125	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R75608
Sample ID: CCV102411B										10/24/11 15:40
54 Continuing Calibration Verification Standard										
Acetone		53.2	ug/L	20	106	70	130			
Acrylonitrile		50.0	ug/L	20	100	70	130			
Benzene		5.44	ug/L	1.0	109	70	130			
Bromochloromethane		5.16	ug/L	1.0	103	70	130			
Bromodichloromethane		6.00	ug/L	1.0	120	70	130			
Bromoform		4.84	ug/L	1.0	97	70	130			
Bromomethane		4.52	ug/L	1.0	90	70	130			
Carbon disulfide		5.92	ug/L	1.0	118	70	130			
Carbon tetrachloride		5.64	ug/L	1.0	113	70	130			
Chlorobenzene		5.52	ug/L	1.0	110	70	130			
Chlorodibromomethane		5.08	ug/L	1.0	102	70	130			
Chloroethane		5.52	ug/L	1.0	110	70	130			
Chloroform		5.56	ug/L	1.0	111	80	120			
Chloromethane		4.92	ug/L	1.0	98	70	130			
1,2-Dibromo-3-chloropropane		5.88	ug/L	1.0	118	70	130			
1,2-Dibromoethane		5.20	ug/L	1.0	104	70	130			
Dibromomethane		5.04	ug/L	1.0	101	70	130			
1,2-Dichlorobenzene		5.36	ug/L	1.0	107	70	130			
1,4-Dichlorobenzene		5.08	ug/L	1.0	102	70	130			
trans-1,4-Dichloro-2-butene		5.12	ug/L	1.0	102	70	130			
Dichlorodifluoromethane		5.28	ug/L	1.0	106	70	130			
1,1-Dichloroethane		5.64	ug/L	1.0	113	70	130			
1,2-Dichloroethane		5.20	ug/L	1.0	104	70	130			
1,1-Dichloroethene		5.56	ug/L	1.0	111	80	120			
cis-1,2-Dichloroethene		5.60	ug/L	1.0	112	70	130			
trans-1,2-Dichloroethene		5.52	ug/L	1.0	110	70	130			
1,2-Dichloropropane		6.20	ug/L	1.0	124	80	120			S
cis-1,3-Dichloropropene		5.76	ug/L	1.0	115	70	130			
trans-1,3-Dichloropropene		5.68	ug/L	1.0	114	70	130			
Ethylbenzene		5.64	ug/L	1.0	113	80	120			
2-Hexanone		54.4	ug/L	20	109	70	130			
Iodomethane		4.96	ug/L	1.0	99	70	130			
Methyl ethyl ketone		46.8	ug/L	20	94	70	130			
Methyl isobutyl ketone		50.0	ug/L	20	100	70	130			
Methylene chloride		5.00	ug/L	1.0	100	70	130			
Styrene		5.64	ug/L	1.0	113	70	130			
1,1,1,2-Tetrachloroethane		4.72	ug/L	1.0	94	70	130			
1,1,2,2-Tetrachloroethane		5.12	ug/L	1.0	102	70	130			
Tetrachloroethene		5.72	ug/L	1.0	114	70	130			
Toluene		5.68	ug/L	1.0	114	80	120			
1,1,1-Trichloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2-Trichloroethane		5.32	ug/L	1.0	106	70	130			
Trichloroethene		5.96	ug/L	1.0	119	70	130			
Trichlorofluoromethane		4.44	ug/L	1.0	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R75608
Sample ID: CCV102411B	54	Continuing Calibration Verification Standard								10/24/11 15:40
1,2,3-Trichloropropane		4.72	ug/L	1.0	94	70	130			
Vinyl acetate		5.24	ug/L	1.0	105	70	130			
Vinyl chloride		5.48	ug/L	1.0	110	80	120			
m+p-Xylenes		10.8	ug/L	1.0	108	70	130			
o-Xylene		5.12	ug/L	1.0	102	70	130			
Xylenes, Total		16.0	ug/L	1.0	106	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	112	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	105	70	130			

Method: SW8260B										Batch: R75608
Sample ID: LCS102411A	54	Laboratory Control Sample								10/24/11 16:20
				Run: 1SATURN_111024A						
Acetone		51.2	ug/L	20	102	70	130			
Acrylonitrile		56.0	ug/L	20	112	70	130			
Benzene		5.36	ug/L	1.0	107	70	130			
Bromochloromethane		5.24	ug/L	1.0	105	70	130			
Bromodichloromethane		5.36	ug/L	1.0	107	70	130			
Bromoform		4.76	ug/L	1.0	95	70	130			
Bromomethane		4.16	ug/L	1.0	83	70	130			
Carbon disulfide		6.44	ug/L	1.0	129	70	130			
Carbon tetrachloride		5.28	ug/L	1.0	106	70	130			
Chlorobenzene		5.16	ug/L	1.0	103	70	130			
Chlorodibromomethane		4.56	ug/L	1.0	91	70	130			
Chloroethane		5.36	ug/L	1.0	107	70	130			
Chloroform		5.48	ug/L	1.0	110	70	130			
Chloromethane		4.76	ug/L	1.0	95	70	130			
1,2-Dibromo-3-chloropropane		6.00	ug/L	1.0	120	70	130			
1,2-Dibromoethane		5.08	ug/L	1.0	102	70	130			
Dibromomethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichlorobenzene		5.72	ug/L	1.0	114	70	130			
1,4-Dichlorobenzene		5.20	ug/L	1.0	104	70	130			
trans-1,4-Dichloro-2-butene		5.24	ug/L	1.0	105	70	130			
Dichlorodifluoromethane		3.53	ug/L	1.0	71	70	130			
1,1-Dichloroethane		5.76	ug/L	1.0	115	70	130			
1,2-Dichloroethane		5.72	ug/L	1.0	114	70	130			
1,1-Dichloroethene		5.56	ug/L	1.0	111	70	130			
cis-1,2-Dichloroethene		5.40	ug/L	1.0	108	70	130			
trans-1,2-Dichloroethene		5.36	ug/L	1.0	107	70	130			
1,2-Dichloropropane		5.36	ug/L	1.0	107	70	130			
cis-1,3-Dichloropropene		5.20	ug/L	1.0	104	70	130			
trans-1,3-Dichloropropene		5.28	ug/L	1.0	106	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		53.2	ug/L	20	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75608
Sample ID: LCS102411A	54	Laboratory Control Sample				Run: 1SATURN_111024A				10/24/11 16:20
Iodomethane		4.00	ug/L	1.0	80	70	130			
Methyl ethyl ketone		43.6	ug/L	20	87	70	130			
Methyl isobutyl ketone		52.4	ug/L	20	105	70	130			
Methylene chloride		5.08	ug/L	1.0	102	70	130			
Styrene		5.04	ug/L	1.0	101	70	130			
1,1,1,2-Tetrachloroethane		4.68	ug/L	1.0	94	70	130			
1,1,2,2-Tetrachloroethane		5.28	ug/L	1.0	106	70	130			
Tetrachloroethene		5.40	ug/L	1.0	108	70	130			
Toluene		5.36	ug/L	1.0	107	70	130			
1,1,1-Trichloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2-Trichloroethane		4.96	ug/L	1.0	99	70	130			
Trichloroethene		5.32	ug/L	1.0	106	70	130			
Trichlorofluoromethane		4.96	ug/L	1.0	99	70	130			
1,2,3-Trichloropropane		4.76	ug/L	1.0	95	70	130			
Vinyl acetate		5.92	ug/L	1.0	118	70	130			
Vinyl chloride		4.56	ug/L	1.0	91	70	130			
m+p-Xylenes		9.80	ug/L	1.0	98	70	130			
o-Xylene		4.88	ug/L	1.0	98	70	130			
Xylenes, Total		14.7	ug/L	1.0	98	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	110	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	105	70	130			
Surr: Toluene-d8				1.0	99	70	130			
Sample ID: MB102411A	54	Method Blank				Run: 1SATURN_111024A				10/24/11 19:09
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75608
Sample ID: MB102411A	54	Method Blank					Run: 1SATURN_111024A			10/24/11 19:09
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	121	70	130			
Surr: Dibromofluoromethane				1.0	115	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Surr: Toluene-d8				1.0	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

GPOC Summary Report Prepared by: [Name]

Report Date: 11/11/11
 Report Order: 11111111

Analysis	Count	Percent	Rate	95% CI Lower Bound	95% CI Upper Bound
Analysis 1	100	100%	1.0	0.8	1.2
Analysis 2	100	100%	1.0	0.8	1.2
Analysis 3	100	100%	1.0	0.8	1.2
Analysis 4	100	100%	1.0	0.8	1.2
Analysis 5	100	100%	1.0	0.8	1.2
Analysis 6	100	100%	1.0	0.8	1.2
Analysis 7	100	100%	1.0	0.8	1.2
Analysis 8	100	100%	1.0	0.8	1.2
Analysis 9	100	100%	1.0	0.8	1.2
Analysis 10	100	100%	1.0	0.8	1.2
Analysis 11	100	100%	1.0	0.8	1.2
Analysis 12	100	100%	1.0	0.8	1.2
Analysis 13	100	100%	1.0	0.8	1.2
Analysis 14	100	100%	1.0	0.8	1.2
Analysis 15	100	100%	1.0	0.8	1.2
Analysis 16	100	100%	1.0	0.8	1.2
Analysis 17	100	100%	1.0	0.8	1.2
Analysis 18	100	100%	1.0	0.8	1.2
Analysis 19	100	100%	1.0	0.8	1.2
Analysis 20	100	100%	1.0	0.8	1.2
Analysis 21	100	100%	1.0	0.8	1.2
Analysis 22	100	100%	1.0	0.8	1.2
Analysis 23	100	100%	1.0	0.8	1.2
Analysis 24	100	100%	1.0	0.8	1.2
Analysis 25	100	100%	1.0	0.8	1.2
Analysis 26	100	100%	1.0	0.8	1.2
Analysis 27	100	100%	1.0	0.8	1.2
Analysis 28	100	100%	1.0	0.8	1.2
Analysis 29	100	100%	1.0	0.8	1.2
Analysis 30	100	100%	1.0	0.8	1.2
Analysis 31	100	100%	1.0	0.8	1.2
Analysis 32	100	100%	1.0	0.8	1.2
Analysis 33	100	100%	1.0	0.8	1.2
Analysis 34	100	100%	1.0	0.8	1.2
Analysis 35	100	100%	1.0	0.8	1.2
Analysis 36	100	100%	1.0	0.8	1.2
Analysis 37	100	100%	1.0	0.8	1.2
Analysis 38	100	100%	1.0	0.8	1.2
Analysis 39	100	100%	1.0	0.8	1.2
Analysis 40	100	100%	1.0	0.8	1.2
Analysis 41	100	100%	1.0	0.8	1.2
Analysis 42	100	100%	1.0	0.8	1.2
Analysis 43	100	100%	1.0	0.8	1.2
Analysis 44	100	100%	1.0	0.8	1.2
Analysis 45	100	100%	1.0	0.8	1.2
Analysis 46	100	100%	1.0	0.8	1.2
Analysis 47	100	100%	1.0	0.8	1.2
Analysis 48	100	100%	1.0	0.8	1.2
Analysis 49	100	100%	1.0	0.8	1.2
Analysis 50	100	100%	1.0	0.8	1.2

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: R75754								
Sample ID: CCV103111B		54 Continuing Calibration Verification Standard							10/31/11 11:35	
Acetone		58.8	ug/L	20	118	70	130			
Acrylonitrile		54.8	ug/L	20	110	70	130			
Benzene		5.96	ug/L	1.0	119	70	130			
Bromochloromethane		5.80	ug/L	1.0	116	70	130			
Bromodichloromethane		6.04	ug/L	1.0	121	70	130			
Bromoform		5.20	ug/L	1.0	104	70	130			
Bromomethane		6.36	ug/L	1.0	127	70	130			
Carbon disulfide		6.16	ug/L	1.0	123	70	130			
Carbon tetrachloride		5.88	ug/L	1.0	118	70	130			
Chlorobenzene		5.48	ug/L	1.0	110	70	130			
Chlorodibromomethane		4.96	ug/L	1.0	99	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		5.88	ug/L	1.0	118	80	120			
Chloromethane		6.08	ug/L	1.0	122	70	130			
1,2-Dibromo-3-chloropropane		5.68	ug/L	1.0	114	70	130			
1,2-Dibromoethane		5.28	ug/L	1.0	106	70	130			
Dibromomethane		4.80	ug/L	1.0	96	70	130			
1,2-Dichlorobenzene		5.84	ug/L	1.0	117	70	130			
1,4-Dichlorobenzene		5.88	ug/L	1.0	118	70	130			
trans-1,4-Dichloro-2-butene		5.88	ug/L	1.0	118	70	130			
Dichlorodifluoromethane		5.04	ug/L	1.0	101	70	130			
1,1-Dichloroethane		6.52	ug/L	1.0	130	70	130			
1,2-Dichloroethane		5.56	ug/L	1.0	111	70	130			
1,1-Dichloroethene		6.00	ug/L	1.0	120	80	120			
cis-1,2-Dichloroethene		6.08	ug/L	1.0	122	70	130			
trans-1,2-Dichloroethene		5.92	ug/L	1.0	118	70	130			
1,2-Dichloropropane		5.96	ug/L	1.0	119	80	120			
cis-1,3-Dichloropropene		5.92	ug/L	1.0	118	70	130			
trans-1,3-Dichloropropene		5.52	ug/L	1.0	110	70	130			
Ethylbenzene		5.80	ug/L	1.0	116	80	120			
2-Hexanone		56.8	ug/L	20	114	70	130			
Iodomethane		5.20	ug/L	1.0	104	70	130			
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		50.0	ug/L	20	100	70	130			
Methylene chloride		5.44	ug/L	1.0	109	70	130			
Styrene		5.72	ug/L	1.0	114	70	130			
1,1,1,2-Tetrachloroethane		5.36	ug/L	1.0	107	70	130			
1,1,2,2-Tetrachloroethane		5.88	ug/L	1.0	118	70	130			
Tetrachloroethene		5.28	ug/L	1.0	106	70	130			
Toluene		5.80	ug/L	1.0	116	80	120			
1,1,1-Trichloroethane		5.96	ug/L	1.0	119	70	130			
1,1,2-Trichloroethane		5.16	ug/L	1.0	103	70	130			
Trichloroethene		5.56	ug/L	1.0	111	70	130			
Trichlorofluoromethane		5.68	ug/L	1.0	114	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Project: Mister M Landfill

Report Date: 11/01/11

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R75754
Sample ID: CCV103111B										10/31/11 11:35
54 Continuing Calibration Verification Standard										
1,2,3-Trichloropropane		4.12	ug/L	1.0	82	70	130			
Vinyl acetate		6.24	ug/L	1.0	125	70	130			
Vinyl chloride		5.84	ug/L	1.0	117	80	120			
m+p-Xylenes		10.4	ug/L	1.0	104	70	130			
o-Xylene		5.08	ug/L	1.0	102	70	130			
Xylenes, Total		15.5	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	112	70	130			
Surr: Dibromofluoromethane				1.0	95	70	130			
Surr: p-Bromofluorobenzene				1.0	107	70	130			
Surr: Toluene-d8				1.0	102	70	130			
Method: SW8260B										Batch: R75754
Sample ID: LCS103111B										10/31/11 13:08
54 Laboratory Control Sample										
Run: 1SATURN_111031A										
Acetone		58.0	ug/L	20	116	70	130			
Acrylonitrile		61.6	ug/L	20	123	70	130			
Benzene		5.72	ug/L	1.0	114	70	130			
Bromochloromethane		5.56	ug/L	1.0	111	70	130			
Bromodichloromethane		5.68	ug/L	1.0	114	70	130			
Bromoform		4.76	ug/L	1.0	95	70	130			
Bromomethane		6.48	ug/L	1.0	130	70	130			
Carbon disulfide		6.48	ug/L	1.0	130	70	130			
Carbon tetrachloride		5.56	ug/L	1.0	111	70	130			
Chlorobenzene		5.36	ug/L	1.0	107	70	130			
Chlorodibromomethane		4.84	ug/L	1.0	97	70	130			
Chloroethane		6.16	ug/L	1.0	123	70	130			
Chloroform		5.84	ug/L	1.0	117	70	130			
Chloromethane		6.32	ug/L	1.0	126	70	130			
1,2-Dibromo-3-chloropropane		5.88	ug/L	1.0	118	70	130			
1,2-Dibromoethane		5.04	ug/L	1.0	101	70	130			
Dibromomethane		4.44	ug/L	1.0	89	70	130			
1,2-Dichlorobenzene		5.68	ug/L	1.0	114	70	130			
1,4-Dichlorobenzene		5.48	ug/L	1.0	110	70	130			
trans-1,4-Dichloro-2-butene		5.52	ug/L	1.0	110	70	130			
Dichlorodifluoromethane		5.80	ug/L	1.0	116	70	130			
1,1-Dichloroethane		6.36	ug/L	1.0	127	70	130			
1,2-Dichloroethane		5.24	ug/L	1.0	105	70	130			
1,1-Dichloroethene		5.88	ug/L	1.0	118	70	130			
cis-1,2-Dichloroethene		5.76	ug/L	1.0	115	70	130			
trans-1,2-Dichloroethene		5.56	ug/L	1.0	111	70	130			
1,2-Dichloropropane		5.80	ug/L	1.0	116	70	130			
cis-1,3-Dichloropropene		5.64	ug/L	1.0	113	70	130			
trans-1,3-Dichloropropene		5.52	ug/L	1.0	110	70	130			
Ethylbenzene		6.04	ug/L	1.0	121	70	130			
2-Hexanone		53.6	ug/L	20	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75754
Sample ID: LCS103111B	54	Laboratory Control Sample				Run: 1SATURN_111031A				10/31/11 13:08
Iodomethane		4.28	ug/L	1.0	86	70	130			
Methyl ethyl ketone		48.8	ug/L	20	98	70	130			
Methyl isobutyl ketone		50.0	ug/L	20	100	70	130			
Methylene chloride		5.48	ug/L	1.0	104	70	130			
Styrene		5.40	ug/L	1.0	108	70	130			
1,1,1,2-Tetrachloroethane		5.12	ug/L	1.0	102	70	130			
1,1,2,2-Tetrachloroethane		5.76	ug/L	1.0	115	70	130			
Tetrachloroethene		5.36	ug/L	1.0	107	70	130			
Toluene		5.68	ug/L	1.0	114	70	130			
1,1,1-Trichloroethane		5.76	ug/L	1.0	115	70	130			
1,1,2-Trichloroethane		5.00	ug/L	1.0	100	70	130			
Trichloroethene		5.40	ug/L	1.0	108	70	130			
Trichlorofluoromethane		6.00	ug/L	1.0	120	70	130			
1,2,3-Trichloropropane		4.20	ug/L	1.0	84	70	130			
Vinyl acetate		6.16	ug/L	1.0	123	70	130			
Vinyl chloride		5.76	ug/L	1.0	115	70	130			
m+p-Xylenes		10.0	ug/L	1.0	100	70	130			
o-Xylene		5.24	ug/L	1.0	105	70	130			
Xylenes, Total		15.3	ug/L	1.0	102	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	112	70	130			
Surr: Dibromofluoromethane				1.0	97	70	130			
Surr: p-Bromofluorobenzene				1.0	105	70	130			
Surr: Toluene-d8				1.0	102	70	130			
Sample ID: MB103111A	54	Method Blank				Run: 1SATURN_111031A				10/31/11 14:22
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75754
Sample ID: MB103111A	54	Method Blank		Run: 1SATURN_111031A				10/31/11 14:22		
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	119	70	130			
Surr: Dibromofluoromethane				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	98	70	130			
Sample ID: H11100280-002DMS	54	Sample Matrix Spike		Run: 1SATURN_111031A				10/31/11 20:41		
Acetone		102	ug/L	40	102	70	130			
Acrylonitrile		111	ug/L	40	111	70	130			
Benzene		10.4	ug/L	2.0	104	70	130			
Bromochloromethane		10.1	ug/L	2.0	101	70	130			
Bromodichloromethane		10.3	ug/L	2.0	103	70	130			
Bromoform		8.64	ug/L	2.0	86	70	130			
Bromomethane		4.70	ug/L	2.0	47	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75754
Sample ID: H11100280-002DMS	54	Sample Matrix Spike				Run: 1SATURN_111031A				10/31/11 20:41
Carbon disulfide		12.8	ug/L	2.0	128	70	130			
Carbon tetrachloride		10.0	ug/L	2.0	100	70	130			
Chlorobenzene		9.60	ug/L	2.0	96	70	130			
Chlorodibromomethane		8.48	ug/L	2.0	85	70	130			
Chloroethane		11.4	ug/L	2.0	114	70	130			
Chloroform		10.6	ug/L	2.0	106	70	130			
Chloromethane		10.9	ug/L	2.0	109	70	130			
1,2-Dibromo-3-chloropropane		10.7	ug/L	2.0	107	70	130			
1,2-Dibromoethane		8.80	ug/L	2.0	88	70	130			
Dibromomethane		8.08	ug/L	2.0	81	70	130			
1,2-Dichlorobenzene		9.92	ug/L	2.0	99	70	130			
1,4-Dichlorobenzene		9.84	ug/L	2.0	98	70	130			
trans-1,4-Dichloro-2-butene		9.92	ug/L	2.0	99	70	130			
Dichlorodifluoromethane		10.4	ug/L	2.0	104	70	130			
1,1-Dichloroethane		11.7	ug/L	2.0	117	70	130			
1,2-Dichloroethane		10.0	ug/L	2.0	100	70	130			
1,1-Dichloroethene		10.4	ug/L	2.0	104	70	130			
cis-1,2-Dichloroethene		10.6	ug/L	2.0	106	70	130			
trans-1,2-Dichloroethene		11.0	ug/L	2.0	110	70	130			
1,2-Dichloropropane		11.0	ug/L	2.0	110	70	130			
cis-1,3-Dichloropropene		10.1	ug/L	2.0	101	70	130			
trans-1,3-Dichloropropene		9.44	ug/L	2.0	94	70	130			
Ethylbenzene		10.8	ug/L	2.0	108	70	130			
2-Hexanone		102	ug/L	40	102	70	130			
Iodomethane		7.78	ug/L	2.0	78	70	130			
Methyl ethyl ketone		103	ug/L	40	103	70	130			
Methyl isobutyl ketone		93.6	ug/L	40	94	70	130			
Methylene chloride		9.68	ug/L	2.0	97	70	130			
Styrene		9.84	ug/L	2.0	98	70	130			
1,1,1,2-Tetrachloroethane		9.28	ug/L	2.0	93	70	130			
1,1,2,2-Tetrachloroethane		10.7	ug/L	2.0	107	70	130			
Tetrachloroethene		9.04	ug/L	2.0	90	70	130			
Toluene		10.3	ug/L	2.0	103	70	130			
1,1,1-Trichloroethane		10.5	ug/L	2.0	105	70	130			
1,1,2-Trichloroethane		9.36	ug/L	2.0	94	70	130			
Trichloroethene		9.36	ug/L	2.0	94	70	130			
Trichlorofluoromethane		11.1	ug/L	2.0	111	70	130			
1,2,3-Trichloropropane		8.72	ug/L	2.0	87	70	130			
Vinyl acetate		11.8	ug/L	2.0	118	70	130			
Vinyl chloride		10.7	ug/L	2.0	107	70	130			
m+p-Xylenes		18.4	ug/L	2.0	92	70	130			
o-Xylene		9.12	ug/L	2.0	91	70	130			
Xylenes, Total		27.5	ug/L	2.0	92	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75754
Sample ID: H11100280-002DMS	54	Sample Matrix Spike		Run: 1SATURN_111031A				10/31/11 20:41		
Surr: Dibromofluoromethane				2.0	98	70	130			
Surr: p-Bromofluorobenzene				2.0	106	70	130			
Surr: Toluene-d8				2.0	101	70	130			
Sample ID: H11100280-002DMSD	54	Sample Matrix Spike Duplicate		Run: 1SATURN_111031A				10/31/11 21:13		
Acetone	120	ug/L	40	120	70	130	16	20		
Acrylonitrile	106	ug/L	40	106	70	130	4.4	20		
Benzene	11.0	ug/L	2.0	110	70	130	6.0	20		
Bromochloromethane	10.7	ug/L	2.0	107	70	130	6.2	20		
Bromodichloromethane	10.7	ug/L	2.0	107	70	130	3.8	20		
Bromoform	8.40	ug/L	2.0	84	70	130	2.8	20		
Bromomethane	8.16	ug/L	2.0	82	70	130	54	20		R
Carbon disulfide	13.0	ug/L	2.0	130	70	130	1.9	20		
Carbon tetrachloride	10.6	ug/L	2.0	106	70	130	5.4	20		
Chlorobenzene	9.76	ug/L	2.0	98	70	130	1.7	20		
Chlorodibromomethane	8.56	ug/L	2.0	86	70	130	0.9	20		
Chloroethane	10.4	ug/L	2.0	104	70	130	9.5	20		
Chloroform	11.0	ug/L	2.0	110	70	130	4.4	20		
Chloromethane	11.9	ug/L	2.0	119	70	130	9.1	20		
1,2-Dibromo-3-chloropropane	10.5	ug/L	2.0	105	70	130	2.3	20		
1,2-Dibromoethane	9.36	ug/L	2.0	94	70	130	6.2	20		
Dibromomethane	8.48	ug/L	2.0	85	70	130	4.8	20		
1,2-Dichlorobenzene	10.5	ug/L	2.0	105	70	130	5.5	20		
1,4-Dichlorobenzene	10.4	ug/L	2.0	104	70	130	5.5	20		
trans-1,4-Dichloro-2-butene	10.8	ug/L	2.0	108	70	130	8.5	20		
Dichlorodifluoromethane	10.7	ug/L	2.0	107	70	130	3.0	20		
1,1-Dichloroethane	12.5	ug/L	2.0	125	70	130	6.6	20		
1,2-Dichloroethane	9.92	ug/L	2.0	99	70	130	0.8	20		
1,1-Dichloroethene	11.1	ug/L	2.0	111	70	130	6.7	20		
cis-1,2-Dichloroethene	11.1	ug/L	2.0	111	70	130	5.2	20		
trans-1,2-Dichloroethene	11.2	ug/L	2.0	112	70	130	1.4	20		
1,2-Dichloropropane	11.6	ug/L	2.0	116	70	130	4.9	20		
cis-1,3-Dichloropropene	10.6	ug/L	2.0	106	70	130	4.7	20		
trans-1,3-Dichloropropene	9.76	ug/L	2.0	98	70	130	3.3	20		
Ethylbenzene	11.0	ug/L	2.0	110	70	130	2.2	20		
2-Hexanone	110	ug/L	40	110	70	130	8.3	20		
Iodomethane	7.88	ug/L	2.0	79	70	130	1.2	20		
Methyl ethyl ketone	110	ug/L	40	110	70	130	6.7	20		
Methyl isobutyl ketone	110	ug/L	40	110	70	130	16	20		
Methylene chloride	10.0	ug/L	2.0	100	70	130	3.3	20		
Styrene	10.4	ug/L	2.0	104	70	130	5.5	20		
1,1,1,2-Tetrachloroethane	9.76	ug/L	2.0	98	70	130	5.0	20		
1,1,2,2-Tetrachloroethane	10.5	ug/L	2.0	105	70	130	2.3	20		
Tetrachloroethene	9.68	ug/L	2.0	97	70	130	6.8	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT-DEQ Solid Waste Section

Report Date: 11/01/11

Project: Mister M Landfill

Work Order: H11100280

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R75754
Sample ID: H11100280-002DMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_111031A 10/31/11 21:13
Toluene		10.8	ug/L	2.0	108	70	130	4.5	20	
1,1,1-Trichloroethane		11.0	ug/L	2.0	110	70	130	5.2	20	
1,1,2-Trichloroethane		9.76	ug/L	2.0	98	70	130	4.2	20	
Trichloroethene		9.68	ug/L	2.0	97	70	130	3.4	20	
Trichlorofluoromethane		11.2	ug/L	2.0	112	70	130	0.7	20	
1,2,3-Trichloropropane		8.96	ug/L	2.0	90	70	130	2.7	20	
Vinyl acetate		12.7	ug/L	2.0	127	70	130	7.8	20	
Vinyl chloride		11.1	ug/L	2.0	111	70	130	3.7	20	
m+p-Xylenes		18.1	ug/L	2.0	90	70	130	1.8	20	
o-Xylene		9.52	ug/L	2.0	95	70	130	4.3	20	
Xylenes, Total		27.6	ug/L	2.0	92	70	130	0.3	20	
Surr: 1,2-Dichloroethane-d4				2.0	115	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	99	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	102	70	130	0.0	20	
Surr: Toluene-d8				2.0	104	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



H11100280

Login completed by: Wanda Johnson

Date Received: 10/19/2011

Reviewed by: BL2000\ablackburn

Received by: elm

Reviewed Date: 10/26/2011

Carrier Hand Del
name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	

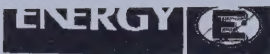
Container/Temp Blank temperature: 2.4°C On Ice

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Contact and Corrective Action Comments:

Contacted client regarding which metals to analyze for. Wj 10/19/11 Client stated to analyze same as historically for the dissolved metals on the 4 samples that are not listed on the COC. Wj 10/20/11



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ Solid Waste Section	Project Name, PWS, Permit, Etc. Mistish M Landfill	Sample Origin State: MT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: PO Box 200801, Helena, MT 59620	Contact Name: Martin Van Oort	Phone/Fax: 444-2802	Email: mvanooort@mt.gov
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Sampler: (Please Print) Martin Van Oort
			Quote/Bottle Order: 8557

Special Report/Formats:

- ☐ DW
☐ POTW/WWTP
☒ State: Solid Waste
☐ Other: _____
- ☐ EDD/EDT (Electronic Data)
Format: _____
☐ LEVEL IV
☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

R
U
S
H

Contact ELI prior to
RUSH sample submittal
for charges and
scheduling - See
Instruction Page

Comments:

Shipped by:
HandCooler ID(s):
4

Receipt Temp

2.4 °COn Ice: ☒ Y ☐ N

Custody Seal

On Bottle

On Cooler

Intact **ELI**

Signature

Match **Y N**

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
---	--------------------	--------------------	--------

¹ M-M-MW-11	10/17/11	1510	W
² M-M-MW-11-DUP	10/17/11	1515	W
³ M-M-MW-9R	10/18/11	810	W
⁴ M-M-MW-OW	↓	1035	W
⁵ M-M-MW-12	↓	1455	W
⁶ M-M-MW-HW	↓	1605	W
⁷ Trip Blank	10/17/11	—	W
⁸			
⁹			
¹⁰			

MATRIX

8260 VOCs
Sulfate, Chloride, H₂SC
Nitrate/Nitrite
Dissolved metals (Cd)
Dissolved metals (Fe/Zn)

**Custody
Record
MUST be
Signed**

Relinquished by (print):

Signature: **Martin Van Oort**

Date/Time:

10/19/11 1205

Signature:

Signature:

Received by (print):

Date/Time:

Signature:

Received by (print):

Date/Time:

Signature:

Relinquished by (print):

Date/Time:

Signature:

Signature:

Received by (print):

Date/Time:

Signature:

Received by Laboratory:

Date/Time:

Signature:

Sample Disposal:

Return to Client:

Lab Disposal:

Received by Laboratory:

Date/Time:

Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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1.0 INTRODUCTION

Groundwater and methane monitoring at the closed Mister M Landfill, License #302, was conducted in October 2009 by the Montana Department of Environmental Quality (MDEQ), Solid Waste Section, according to the May 2009 Sampling and Analysis Plan for Methane and Groundwater (SAP) (MDEQ, 2009[2]). Mister M Landfill is located in Fergus County, Montana, approximately four miles east of Lewistown on US Highway 87, as shown in Figure 1. As shown in Figure 2, the landfill lies in a small south facing coulee which drains to Boyd Creek. The facility received Class II wastes from 1956 to 1998, and was granted interim closure status on December 5, 2000. The current owners, Marvin and Sandra Mintyala, operated the facility from 1974 until approximately 2000, when the site was abandoned.

According to the Geohydrologic Characterization (Gillespie, 1993 revised; and Gillespie, 1994) the landfill is underlain by the Kootenai Formation, which consists of predominately shale with some silty sandstone. A basal unit of sandstone in the Kootenai formation is the uppermost aquifer in the area. Minor amounts of water have been encountered in the upper portions of the Kootenai Formation but most of the monitoring wells completed at the site have frequently been dry or contained minimal volumes of water.

Previous groundwater sampling at the facility was conducted by the owners or their consultants from 1993-1999 (Gillespie, 1995 and 1996; Energy Laboratories, 1997, 1998 [1], and 1998 [2]; and Portage Environmental, 1999 and 2000). From 2003-2007 Tetra Tech, Inc was authorized by the MDEQ to conduct groundwater and methane monitoring in the absence of action by the owners (Energy Laboratories, 2003, 2004, 2005, 2006, and 2007; Maxim, 2005; Tetra Tech, 2006 and 2008). MDEQ Solid Waste Section personnel have conducted groundwater and methane monitoring from January 2009 to the present (MDEQ, 2009 [1]; MDEQ, 2009 [3]).

2.0 FIELD PROCEDURES

MDEQ Solid Waste Section personnel conducted all field activities on October 26 and 27, including monitoring well inspections, methane monitoring, static water level (SWL) measurements, and groundwater sample collection as part of the assessment monitoring program currently in effect for the facility. The locations of the monitoring points and the activities that were performed at each point are shown in Figure 3. All field activities described in this report were conducted in accordance with the approved May 2009 SAP, and any deviations from the SAP are described herein as required by ARM 17.50.108(15). The analysis of groundwater samples was conducted by Energy Laboratories Inc, in Helena, Montana.

2.1 WELL INSPECTIONS

All currently monitored wells were inspected on October 26 as required in ARM 17.50.724(2). The Office Well (MW-OW) does not have an external casing and the new locking cap installed in April 2009 is already showing significant weather wear. In contrast, the caps for the monitoring wells with protective steel casings remain in excellent condition. The House Well (MW-HW) is located approximately 120ft east of the house. One of the frost-free spigots behind the house is operational.

2.2 METHANE MONITORING

Methane monitoring was conducted on October 27 at wells MW-1, MW-2, MW-5M, MW-6M, and the north vent of the passive methane trench using a GFG model G450 portable gas meter. The gas meter was calibrated to the reference standard prior to leaving the office for the monitoring event. At the wells, monitoring was conducted by attaching the gas meter input tubing directly to the port on the cap. At the methane vent, monitoring was conducted by inserting the gas meter input tubing as far as possible into the vent. At all locations the highest reading during a two to three minute purge was recorded. Methane monitoring was not conducted in the office due to lack of access.

2.3 WATER LEVEL MEASUREMENTS

Static water levels were measured on October 26, 2009 in wells MW-5, MW-9R, MW-10R, and MW-OW using a Herron electric water level meter. The total depths of wells MW-5, MW-9R, and MW-10R were also recorded.

2.4 GROUNDWATER SAMPLING

Groundwater samples were collected October 26 and 27, 2009 from wells MW-9R, MW-10R, MW-HW, and MW-OW. No sample was collected from well MW-5 because the well contained insufficient water. A field duplicate was collected from well MW-10R. No equipment blank was collected because all wells were sampled with disposable bailers. A field blank was collected on October 27, 2009. At each well that was sampled, samples were collected for all of the parameters listed in ARM 17.50.708 Table 1 plus Dichlorodifluoromethane. Due to a laboratory error, no sample bottles for the unpreserved pH, specific conductance, chloride, and sulfate samples were provided. Unpreserved samples were collected in the 500mL bottles provided for cyanide samples, and then sub-sampled and preserved in the laboratory for cyanide analysis. Consultation with the laboratory staff indicated that the results of the cyanide analyses should not be adversely affected by 24 to 48 hours without pH preservation.

The wells were purged and sampled following the procedures in the SAP with the deviations described below. Copies of the Monitoring Well Purging and Sampling Forms for each well are included in Appendix A. All of the wells were purged and sampled using disposable bailers except well MW-HW. Well MW-HW was purged and sampled using the installed pump and the frost-free spigot nearest to the back of the house. Field water quality measurements were made using a Hanna model 991-300 water quality meter, which was calibrated to the pH and conductivity reference solutions on October 23, 2009. Dissolved oxygen and oxidation-reduction potential (ORP) measurements were not taken because the field meter did not have sensors for these parameters. Wells MW-9R and MW-10R were purged dry in the afternoon of October 26, 2009 and allowed to recover overnight before sampling.

After collection, the samples were labeled as described in the SAP and were stored in a laboratory supplied cooler. Due to the cold ambient temperatures and to prevent freezing the samples, no ice was used. The samples were stored according to chain-of-custody requirements and hand delivered to Energy Laboratories Inc in Helena, Montana on October 28, 2009.

3.0 MONITORING RESULTS

3.1 METHANE MONITORING RESULTS

No methane was detected in any of the methane monitoring wells or the north methane vent. Conditions during methane monitoring were very windy, thus the measurement from the open methane vent is likely unreliable. Low oxygen levels were observed in well MW-5M. No carbon monoxide or hydrogen sulfide was detected at any location. A copy of the completed Methane Monitoring Form is included in Appendix A.

3.2 GROUNDWATER LEVELS AND FLOW

The groundwater levels measured during this sampling event were lower than those measured in June 2009 and similar to those measured in January 2009, indicating seasonal fluctuations in water levels are likely. Table 1 contains the measured total depth, depth to water, and static water levels for October 26, 2009. Figure 4 displays the October 26, 2009 water levels on a map. No attempt was made to contour the static water levels as the shallow wells are completed in minor water bearing zones of unknown horizontal extent and connectivity, and only one water level measurement was made in the deep water bearing zone. Groundwater flow in the shallow water bearing zones likely follows local topography and flows in a south to southwest direction. Groundwater flow in the deep water bearing zone is assumed to be to the southwest based on records from domestic wells in the area. No Water Level Measurement Form was completed, but water levels were recorded on the Monitoring Well Purging and Sampling Forms included in Appendix A. Tables containing historic water levels and hydrographs for both the shallow and deep water bearing zones are included in Appendix B.

3.3 DATA VALIDATION

Upon receipt from the laboratory, the analytical results were validated as described in the SAP to ensure that the data quality objectives had been met. The samples were received by the laboratory at a temperature of 2.2°C. The pH of all samples were within acceptable limits with the exception of the Cyanide samples described previously, and the dissolved metals and Nitrate

+ Nitrite and Chemical Oxygen Demand samples from MrM-MW-FB. These samples were preserved upon receipt by the laboratory and no results were flagged. All samples were analyzed within the required holding times. The relative percent difference for all field and laboratory duplicates were all within control limits. Three out of the four matrix spike analyses for Cyanide were outside of control limits, indicating that Cyanide analyses may be imprecise. Only one of the matrix spike analyses was performed on Mister M samples, and the laboratory fortified blank and initial calibration verification standard were within control limits thus no data was qualified. All laboratory blanks were acceptable. No VOCs were detected in the Trip Blank. A copy of the laboratory QA/QC report is included in Appendix C.

3.4 GROUNDWATER ANALYTICAL RESULTS

The following sections discuss the analytical results grouped by analyte type. A copy of the laboratory analytical report is included in Appendix D. Historical concentration plots for all parameters detected during this sampling event and a table containing historical analytical results are included in Appendix E.

3.4.1 Indicator Parameters

Groundwater at the facility has a neutral to slightly alkaline pH, with values from 8.0 to 8.2 reported for this event. These pH values were slightly higher than previous values for all wells, and higher than field measurements indicating a possible bias in the laboratory results. Specific conductance ranged from 683 in the sample from MW-OW to 1080 in MW-10R. Sulfate remained somewhat low (18 mg/L) and Chloride slightly high (14 mg/L) in MW-OW, but were similar to previous events in all other wells. The Sulfate and Chloride values for MW-OW are closer to typical values than during the previous two sampling events. Nitrate + Nitrite was not detected in MW-OW or MW-HW. Nitrate + Nitrite was detected at values of 1.82 mg/L in MW-10R, 1.95 mg/L in the duplicate sample from MW-10R, and 4.04 mg/L in MW-9R, well below the maximum contaminant level (MCL) of 10 mg/L and similar to previous values. These values are also similar to those observed in the background well MW-5 in previous sampling events. Chemical oxygen demand is low in all wells with a maximum of 8 mg/L reported at MW-OW.

3.4.2 Dissolved Metals

Four metals were detected in facility wells during this sampling event. Barium was detected in MW-OW at 0.1 mg/L, which is normal for the facility. Iron was detected in MW-OW at 2.38 mg/L, which is high for that well but lower than the values observed in December 2007 and January 2009. This concentration is greater than the secondary MCL for Iron of 0.3 mg/L. Selenium was detected in MW-10R at 0.081 mg/L and its duplicate at 0.071 mg/L, which is normal for that well. These values exceed the MCL for Selenium of 0.050 mg/L. Selenium has been regularly detected in the background well, MW-5, at similar or higher levels, indicating that these are natural conditions for the facility. Zinc was detected in MW-HW at 0.10 mg/L and in MW-OW at 0.04 mg/L. The zinc detection in MW-HW is higher than typical values for this well (0.02 to 0.05 mg/L). The zinc concentration in MW-OW has decreased significantly from December 2007 to typical historical values for that well.

3.4.3 Volatile Organic Compounds

Seven VOCs were detected in MW-OW and during this sampling event (concentrations in ug/L): Benzene (0.89 J), Ethyl benzene (5.4), Styrene (2.1), Total Xylenes (0.61 J), cis-1,2-Dichloroethene (22), Trichloroethene (0.24 J), and Vinyl chloride (0.59 J). The concentrations of all VOCs increased from the June 2009 pre-redevelopment sampling. Benzene, cis-1,2-Dichloroethene, and Vinyl chloride decreased from the June 2009 post-redevelopment sample, while the other four compounds increased. The number of compounds detected also increased from six to seven, which matched the number of compounds detected in the post-redevelopment sample. Vinyl chloride remains above the Montana Human Health Standard for groundwater of 0.2 ug/L but below the MCL of 2 ug/L. Three VOCs were detected in MW-9R: cis-1,2-Dichloroethene (2.8), Tetrachloroethene (0.76 J), and Trichloroethene (0.22 J). These concentrations have all decreased from the June 2009 concentrations. Toluene was detected in MW-10R (0.19 J) and the duplicate sample from MW-10R (0.020 J). While not typical for this well, Toluene has been detected in other shallow wells at trace concentrations in the past. VOCs were not detected in any other facility wells during this monitoring event.

4.0 STATISTICAL ANALYSIS

4.1 STATISTICAL METHODS

The statistical analyses were performed using the groundwater statistical software package Sanitas version 9.0.31. The analyses were conducted separately for the shallow wells (MW-5, MW-9R and MW-10R) and deep wells (MW-HW and MW-OW). The validated analytical data was first screened to determine which parameters required statistical analysis. Only parameters which were detected in one or more compliance wells (MW-9R, MW-10R, and MW-OW) and had been historically detected at least once in the appropriate background well (MW-5 or MW-HW) were analyzed. To increase the size of the background dataset for the shallow wells, the historical analytical results from cross gradient wells MW-6 and MW-6M were added to the MW-5 data. If a parameter was detected in a compliance well, but was always non-detected in the background dataset, the background value was set as the detection limit and any detection of that parameter was considered a statistical exceedance of background. As a result of the screening described above, the parameters selected for statistical analysis were: pH (shallow and deep), SC (shallow and deep), Chloride (shallow and deep), Sulfate (shallow and deep), COD (shallow and deep), Nitrate + Nitrite (shallow), Barium (deep), Iron (deep), Selenium (shallow), Zinc (deep), and Toluene (shallow).

For the deep wells an intra-well prediction interval analysis was used to determine if the current analytical results from well MW-HW were consistent with historical results, and appropriate to use as the background dataset for MW-OW. Each selected parameter was then compared to the appropriate background dataset using an inter-well prediction interval analysis. The Sanitas software determines the distribution of the background dataset and performs the appropriate statistical test for that distribution. If the prediction interval analysis indicated an exceedance of background levels, a Sen's Slope/Mann Kendall test was conducted to analyze any trends in the data. All of the statistical tests were performed at a 95% confidence level, or the maximum confidence level that was possible given the size of the background dataset if a 95% confidence level was not possible.

4.2 ANALYSIS RESULTS

Table 2 contains a summary of the results of the statistical analyses. The full results of the statistical analyses are included in Appendix F. The values for pH and Zinc at MW-HW exceeded the intra-well prediction limit, thus these data from MW-HW were excluded from the deep well background dataset. Due to the small size of the background datasets the confidence levels for non-parametric tests were less than 95%. The tests for Chloride, Sulfate, COD, Barium, and Iron in MW-OW had a confidence level of 94.44%, and the test for Toluene in MW-10R had a confidence level of 90%. The background dataset for Selenium in the shallow wells contained greater than 15% non-detects, thus Cohen's adjustment was applied prior to calculating the prediction interval. MW-9R does not have sufficient historical data to determine the significance of trends.

The values from the current sampling event for SC, Sulfate, and COD for both the shallow and deep wells; pH, Selenium, and Toluene in the shallow wells; Zinc in the deep wells; Chloride in MW-9R; and Nitrate + Nitrate in MW-10R were within the prediction limits. pH in MW-OW exceeded the prediction limits, but did not exhibit a significant increasing trend. Chloride exceeded the prediction limits in MW-10R and MW-OW, however only MW-OW exhibited a significant increasing trend. Nitrate + Nitrate exceeded the prediction limit in MW-9R, but did not exhibit an increasing trend. Barium and Iron in MW-OW exceeded the prediction limits, but neither displayed a significant increasing trend. Because none of the VOCs detected in MW-OW and MW-9R have been detected in the background wells, the prediction limits for these parameters was detection and all were exceedances. However, only Ethyl benzene and Styrene in MW-OW exhibited significant increasing trends.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Methane and groundwater monitoring was conducted by the MDEQ at the Mister M Landfill on October 26 and 27, 2009. Methane and oxygen levels were measured in four wells and one methane vent, water levels were measured in four wells, and groundwater samples were collected from four wells. All currently used wells were inspected.

No methane was detected in any site wells and in the north methane vent. Oxygen levels were close to normal except in MW-5M, where oxygen was depleted. The office building is locked, thus methane monitoring of that structure can not be conducted. Methane migration does not appear to be an issue at the facility at this time.

The static water levels measured during this event were lower than the June 2009 levels and similar to the January 2009 measurements. These changes in water level were likely due to the spring snowmelt and precipitation, and are evidence that a relatively direct connection may exist between the surface and groundwater. Water levels will be monitored during the quarterly methane monitoring events in the future to provide additionally data on water level trends.

Groundwater analytical results indicate that water quality in MW-10R is normal and not impacted by the landfill. Chloride concentrations in MW-10R exceeded background levels, but were similar to previous measurements at that wells and showed no increasing trends. Three VOCs were detected in MW-9R at low levels. The contaminants present in MW-9R are different than those seen in MW-OW indicating that the contamination may be from a different source or MW-9R may be closer to the source area than MW-OW; however the source of these VOCs is unknown. Because only four sampling events have been conducted at MW-9R, additional data is needed to evaluate the contamination in that well. Wells MW-5, MW-9R, and MW-10R will continue to be sampled in future events. The water quality in MW-HW continues to be normal and not impacted by the landfill. The unusually high detection of Zinc in MW-HW is likely a data outlier and not representative of contamination, but will be tracked in future sampling events. MW-HW will continue to be sampled on a regular basis to increase the background dataset size for the deep wells. Well MW-OW continues to show both inorganic and organic

contamination. Chloride and Sulfate have returned to levels closer to normal, but remain slightly elevated and depressed, respectively. Zinc as returned to normal or near normal levels, but Iron has again increased to well above normal concentrations. These metals are likely the result of previous down-hole equipment associated with the used of MW-OW as a water supply well and not due to landfill leachate. VOCs continued to be detected in MW-OW at generally low levels but Vinyl chloride exceeds the Montana Human Health Standard for groundwater. An additional monitoring well is planned to be installed down-gradient of MW-OW in spring 2010 to help determine the extent of the contamination in MW-OW.

The next quarterly methane monitoring event will occur in January 2010. The facility will continue to perform semi-annual assessment monitoring with the next groundwater sampling event being conducted in May or June 2010.

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Table 7: Summary of Water Level and Total Depth Measurements

Well	Depth to Water (ft)	Barometric Elevation (ft)	Static Water Level	Total Depth (ft)
WELL-1	101.23	4188.51	4188.23	102
WELL-2	41.48	4188	4188	83.5
WELL-3	21.14	4188.71	4188	59.5
WELL-4	32.4	4188.00	4188	59

Notes:

(1) Elevation obtained from topographic profiles (20) and BGS observations.

NM = Not measured

TABLES

TABLES

Table 1: Summary of Water Level and Total Depth Measurements

Well	Depth to Water (ft)	Reference Elevation (ft)	Static Water Level	Total Depth (ft)
MW-5	103.12	4268.35	4165.23	105
MW-9R	41.46	4200 ⁽¹⁾	4159	50.5
MW-10R	31.14	4195 ⁽¹⁾	4164	50.5
MW-OW	33.4	4195 ⁽¹⁾	4162	NM

Notes:

(1) Elevation estimated from topographic contours (5ft) and field observations

NM = Not measured

Table 2: Summary of Results of Statistical Analyses

Parameter	Well	Prediction Interval Analysis					Trend Analysis	
		Distribution	Confidence Level (%)	Prediction Limit(s)	Result	Exceedance?	Slope (per yr)	Significant ?
pH	MW-9R	normal	95	8.13 - 7.21	8.0	No	N/A	N/A
	MW-10R	normal	95	8.13 - 7.21	8.1	No	N/A	N/A
	MW-OW	normal	95	7.85 - 7.00	8.1	Yes	+0.025	No
SC	MW-9R	square	95	1215	922	No	N/A	N/A
	MW-10R	square	95	1215	1080	No	N/A	N/A
	MW-OW	normal	95	839.8	683	No	N/A	N/A
Chloride	MW-9R	normal	95	16.1	14	No	N/A	N/A
	MW-10R	normal	95	16.1	17	Yes	-0.187	No
	MW-OW	non-normal	94.44	10	14	Yes	+0.945	Yes
Sulfate	MW-9R	normal	95	106.4	82	No	N/A	N/A
	MW-10R	normal	95	106.4	88	No	N/A	N/A
	MW-OW	non-normal	94.44	105	18	No	N/A	N/A
COD	MW-9R	cube root	95	126.5	4	No	N/A	N/A
	MW-10R	cube root	95	126.5	3	No	N/A	N/A
	MW-OW	non-normal	94.44	9	8	No	N/A	N/A
Nitrate+Nitrite	MW-9R	normal	95	3.916	4.04	Yes	-0.084	?
	MW-10R	normal	95	3.916	1.885	No	N/A	N/A
Barium	MW-OW	non-normal	94.44	0.08	0.1	Yes	0	No
Iron	MW-OW	non-normal	94.44	0.52	2.38	Yes	+0.049	No
Selenium	MW-10R	normal	95	0.2177	0.076	No	N/A	N/A
Zinc	MW-OW	normal	95	0.053	0.04	No	N/A	N/A
Benzene	MW-OW	ND	N/A	ND	0.89 J	Yes	+0.011	No
cis-1,2-DCE	MW-9R	ND	N/A	ND	2.8	Yes	+0.312	?
	MW-OW	ND	N/A	ND	22	Yes	+1.245	No
Ethyl benzene	MW-OW	ND	N/A	ND	5.4	Yes	+0.018	Yes
Styrene	MW-OW	ND	N/A	ND	2.1	Yes	+0.007	Yes
Tetrachloroethene	MW-9R	ND	N/A	ND	0.76 J	Yes	+0.026	?
Toluene	MW-10R	non-normal	90	7.1	0.195 J	No	N/A	N/A
Trichloroethene	MW-9R	ND	N/A	ND	0.22 J	Yes	+0.023	?
	MW-OW	ND	N/A	ND	0.24 J	Yes	+0.004	No
Vinyl chloride	MW-OW	ND	N/A	ND	0.59 J	Yes	+0.017	No
Total Xylenes	MW-OW	ND	N/A	ND	0.61 J	Yes	0	No

Notes:

ND = Non-detect

N/A = Not applicable

? = Insufficient data for test

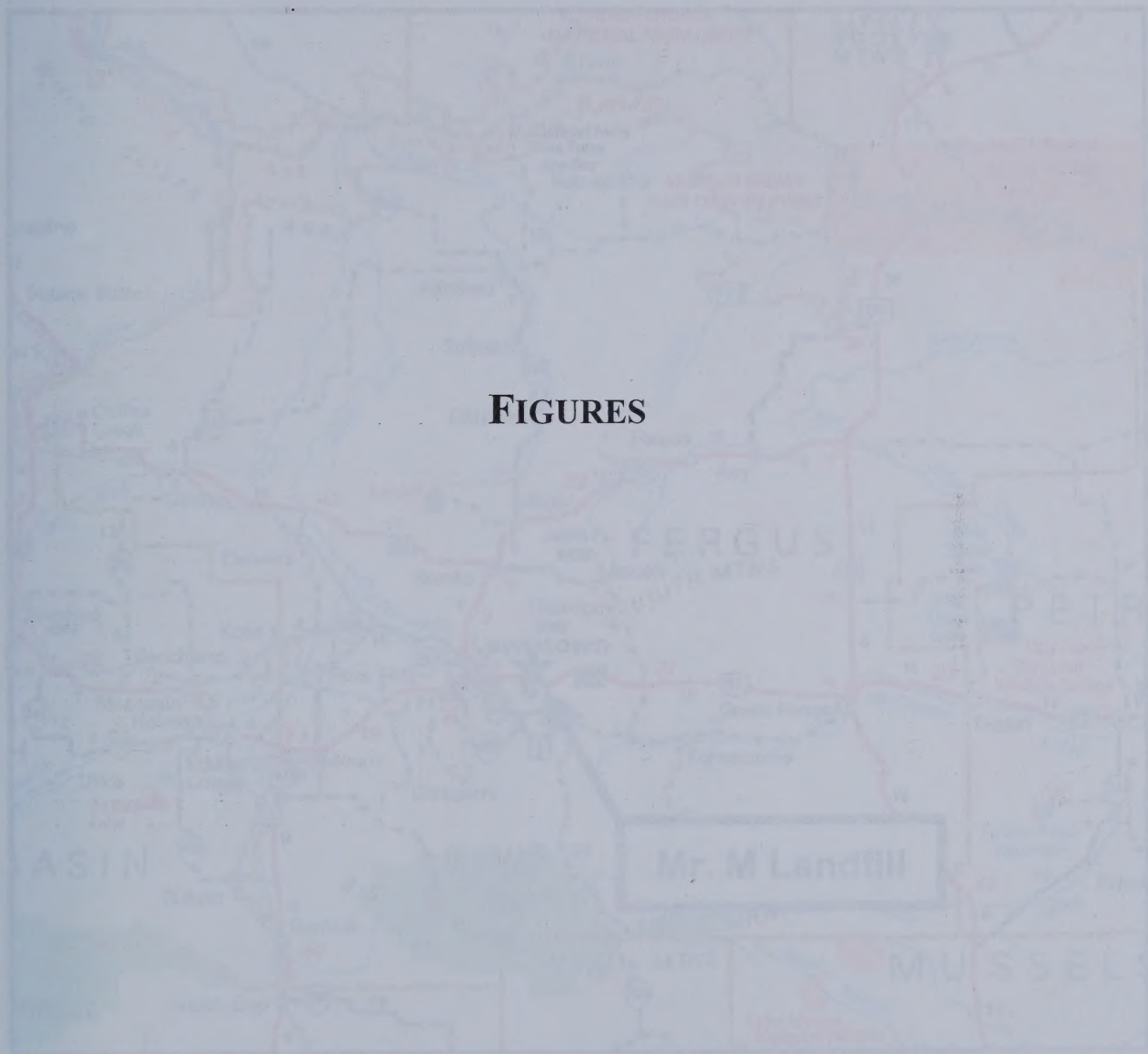


Figure 1: Location Map

Adapted from State of Montana Highway Map.

Table 2: Summary of Results of Statistical Analyses

Parameter	Well	Distribution	Prediction Interval Analysis				Trend Analysis	
			Coefficient Level (%)	Prediction Limit(s)	R-sq	Constant(s)	Slope (per yr)	Significance P
pH	MW-0R	normal	95	9.13-7.21	0.0	No	N/A	N/A
	MW-10R	normal	95	8.13-7.21	0.1	No	N/A	N/A
	MW-0W	normal	95	7.50-7.00	0.1	No	+0.00	NS
SC	MW-0R	square	95	1215	0.0	No	N/A	N/A
	MW-10R	square	95	1217	0.00	No	N/A	N/A
	MW-0W	normal	95	820.5	0.00	No	N/A	N/A
Chloride	MW-0R	normal	95	15.1	0.0	No	N/A	N/A
	MW-10R	normal	95	16.1	0.0	Yes	+0.00	NS
	MW-0W	non-normal	94.99	10	0.0	Yes	+0.00	NS
Sulfate	MW-0R	normal	95	100.4	0.0	No	N/A	N/A
	MW-10R	normal	95	100.4	0.0	No	N/A	N/A
	MW-0W	non-normal	94.94	905	0.0	No	N/A	N/A
DO	MW-0R	square root	95	100.0	0.0	No	N/A	N/A
	MW-10R	square root	95	100.0	0.0	No	N/A	N/A
	MW-0W	non-normal	94.94	0	0.0	No	N/A	N/A
Nitrate-Nitrite	MW-0R	normal	95	2.31-1.01	0.00	Yes	+0.00	NS
	MW-10R	normal	95	2.31-1.01	0.00	No	N/A	N/A
Boron	MW-0W	non-normal	94.99	0.10	0.1	Yes	+0.00	NS
Iron	MW-0W	log-normal	94.94	0.30	0.00	Yes	+0.00	NS
Selenium	MW-10R	normal	95	0.2177	0.00	No	N/A	N/A
Zinc	MW-0W	normal	95	0.003	0.00	No	N/A	N/A
Benzene	MW-0W	N/A	N/A	N/A	0.00	Yes	+0.00	NS
o-x-1,2-DCB	MW-0R	N/A	N/A	N/A	0.0	Yes	+0.00	NS
	MW-0W	N/A	N/A	N/A	0.0	Yes	+0.00	NS
o-x-m-xylene	MW-0W	N/A	N/A	N/A	0.0	Yes	+0.00	NS
Styrene	MW-0W	N/A	N/A	N/A	0.0	Yes	+0.00	NS
o-x-m-xylene	MW-0R	N/A	N/A	N/A	0.00	Yes	+0.00	NS
Toluene	MW-10R	non-normal	95	7.1	0.00	No	N/A	N/A
o-x-m-xylene	MW-0R	N/A	N/A	N/A	0.00	Yes	+0.00	NS
	MW-0W	N/A	N/A	N/A	0.00	Yes	+0.00	NS
o-x-m-xylene	MW-0W	N/A	N/A	N/A	0.00	Yes	+0.00	NS
Total Xylenes	MW-0W	N/A	N/A	N/A	0.00	Yes	+0.00	NS

N/A =

ND = Not detected

N/A = Not applicable

Yes = trend data tested



Figure 1: Location Map

Adapted from State of Montana Highway Map.

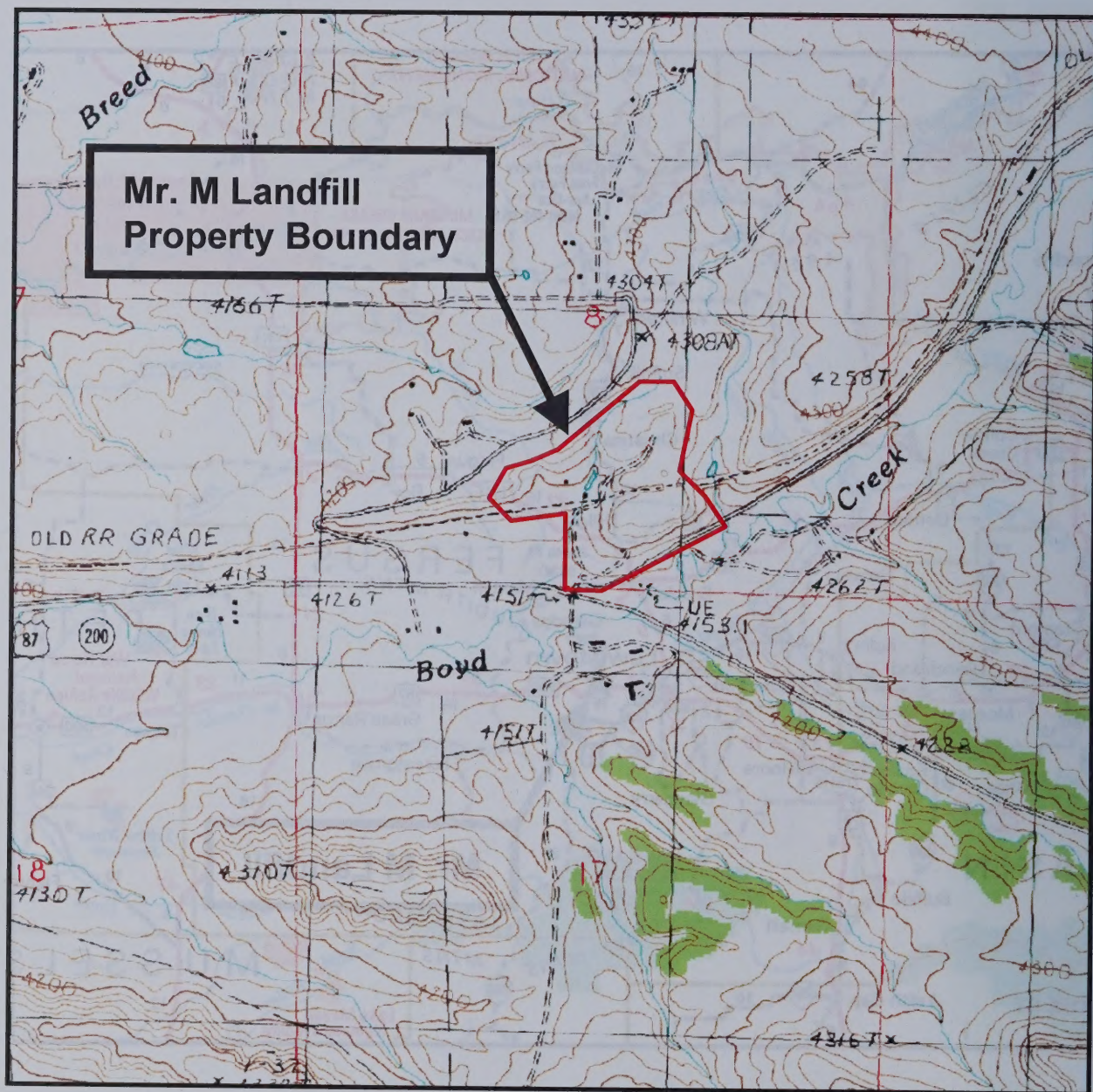


Figure 2: Facility Map

Adapted from USGS Pike Creek 24k Quadrangle.



Figure 3: Locations of Monitoring Points

Base Aerial Photo from 2004.



Figure 4: Groundwater Levels

Base Aerial Photo from 2004.

APPENDIX A: FIELD FORMS



Figure 4: Groundwater Levels

Base Aerial Photo from 2004

Methane Monitoring Form

Site Name: Mesa M Landfill Date: 10/27/09

Personnel: Martin + Joe

Field Conditions: Windy, Partly cloudy, 30's

Meter Model: GFG 450

Calibration Calibrated 10/23
 Time: _____ Standard: 50% Pre-Reading: 45.5 Post-Reading: 50.5

Measurement Point	Time	CH ₄	O ₂	CO	H ₂ S	Comments
MW-2	10:20 am	0	18.8	0	0	
MW-6M	10:30 am	0	18.7	0	0	
MW-5M	10:40 am	0	10	0	0	
N Meth Vent	10:50 am	0	2.2	0	0	
MW-1	12:00 pm	0	19.4	0	0	

Notes: _____

Signature: [Signature] Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Lindell Sample Location: MW-OW

Personnel: Martin, Joe, & B.H. Sample ID: M-M-MW-OW

Date: 10/26/09 Field Conditions: Windy, ~45°

Condition of Well: No steel casing

Depth to Water (DTW): 33.40 Total Depth of Well (TD):

Well Diameter: 4" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: Three Well Volumes:

Purge Equipment: Bailer Pump Depth: Start Time: 1225

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°F)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1227	0.25			7.57	0.96	49.4				
1235	2.5			7.34	0.73	48.9				
1244	5.0			7.51	0.70	47.6				
1252	7.3			7.49	0.68	47.4				
1302	10			7.68	0.66	47.6				
1313	12.5			7.75	0.67	47.3				

Sample Time: 1330 Sampling Method: Bailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 15 Final Depth to Water: End Time:

Notes:

Sampler Signature: WHL Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Landfill Sample Location: MW-9R

Personnel: Martin, Joe, & Bob Sample ID: MM-MW-9R

Date: 10/26/09 Field Conditions: Windy, mostly cloudy, 40's

Condition of Well: Good

Depth to Water (DTW): 41.46 Total Depth of Well (TD): ~50.5

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 1.47 Three Well Volumes: 4.42

Purge Equipment: Boiler Pump Depth: — Start Time: 1400

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1400	1.0			7.00	1.06	50.1				
1405	1.75			6.76	0.93	48.6				
1408	2.6			6.30	0.94	47.8				
1413	3.75			6.79	0.98	47.5				D-X

Sample Time: 10/27/09 830 Sampling Method: Boiler

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 4 gal Final Depth to Water: — End Time:

Notes:

Sampler Signature: [Signature] Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Master M Landfill Sample Location: MW-10R

Personnel: Martin & Joe Sample ID: MM-MW-10R

Date: 10/26/09 Field Conditions: Cloudy, 40's

Condition of Well: Good

Depth to Water (DTW): 31.14 Total Depth of Well (TD): 50.5

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 3.16 Three Well Volumes: 9.47

Purge Equipment: Bur- Pump Depth: - Start Time: 1425

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1430	1			7.55	1.11	49.2				
1437	2			7.16	1.04	46.9				
1445	3.5			7.16	1.05	47.2				
1454	5.5			7.18	1.05	47.2				
1500	8.0			6.98	1.07	47.4				Dry

Sample Time: 10/27/09 900 Sampling Method: Bur-

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 9.47 Final Depth to Water: End Time:

Notes: Duplicate MM-MW-10R-DUP @ 900

Field Blank MM-MW-FB @ 940

Sampler Signature: WHL

Monitoring Well Purging and Sampling Form

Site Name: Master M Lindell Sample Location: MW-HW

Personnel: Master, Joe, Bob Sample ID: MM-MW-HW

Date: 10/26/08 Field Conditions: Windy, cloudy ~40°

Condition of Well: —

Depth to Water (DTW): — Total Depth of Well (TD): —

Well Diameter: — Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: — Three Well Volumes: —

Purge Equipment: Installed Pump Pump Depth: — Start Time: 1610

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1610	5			7.07	0.78	52.1				
1615	20			7.18	0.77	50.3				
1617	30			7.18	0.77	50.1				
1618	40			7.21	0.80	49.6				

Sample Time: 1630 Sampling Method: Frost free spigot near house

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 45 Final Depth to Water: — End Time: —

Notes:

Sampler Signature: UHW Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Landfill Sample Location: MW-5

Personnel: Mark, Joe, Bob Sample ID: —

Date: 10/26/09 Field Conditions: Windy 40's

Condition of Well: Good

Depth to Water (DTW): 103.12 Total Depth of Well (TD): ~ 105

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: _____ Three Well Volumes: _____

Purge Equipment: 212 Pump Depth: 211 Start Time: 11:00

[illegible]

Sample Time: 2:00 Sampling Method: 15m

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: _____ Final Depth to Water: _____ End Time: _____

Notes: No sample - too little water

Sampler Signature:

Table B-1. Historical Water Levels

Well	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
1950-51	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
1951-52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1952-53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1953-54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1954-55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1955-56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1956-57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1957-58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1958-59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1959-60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1960-61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1961-62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1962-63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1963-64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1964-65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1965-66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1966-67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1967-68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1968-69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1969-70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1970-71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1971-72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1972-73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1973-74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1974-75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1975-76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1976-77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1977-78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1978-79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1979-80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1980-81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1981-82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1982-83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1983-84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1984-85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1985-86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1986-87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1987-88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1988-89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1989-90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1990-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1991-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1992-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1993-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1994-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1995-96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1996-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1997-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1998-99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1999-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2000-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2001-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2002-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2003-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2004-05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2005-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2006-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2007-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2008-09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2009-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2010-11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2011-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2012-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2013-14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2014-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2015-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2016-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2017-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2018-19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2019-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2020-21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NA = Not available

NA = Not applicable

(1) Reference elevation obtained from bench mark elevation (BME) and field elevation

(2) Depth from top of well to water in well, DWT, calculated from TD minus DWT

(3) Current field elevation DWT elevation

(4) 3 in. of water in well, DWT elevation from TD

Table B-1: Historical Water Levels

Date	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-7R	MW-8	MW-9	MW-9R	MW-10	MW-10R	MW-OW
6/16/93	Dry	Dry	Dry	Dry	Dry	Dry	N/A	Dry	N/A	N/A	N/A	N/A	NM
10/14/94	NM	NM	NM	NM	NM	NM	N/A	NM	Dry	N/A	4155.69	N/A	NM
12/15/95	4154.12	Dry	Dry	4177.65	4160.64	4173.00	N/A	Dry	4140.77	N/A	4160.92	N/A	NM
3/28/96	4157.37	NM	NM	NM	NM	4176.51	N/A	NM	4139.43	N/A	4158.09	N/A	NM
11/29/05	4154.17	4174.1	NM	4181.82	Dry	N/A	Dry	4155.06	N/A	4158 ⁽¹⁾	N/A	4161 ⁽¹⁾	NM
12/18/07	Dry	Dry	Dry	4165.54	Dry	N/A	Dry	4155.04	N/A	4158 ⁽¹⁾	N/A	4164 ⁽¹⁾	4161 ⁽¹⁾
1/21/09	4153.12	Dry	NM	4165.75 ⁽²⁾	NM ⁽³⁾	N/A	4176.49 ⁽⁴⁾	NM	N/A	4158 ⁽¹⁾	N/A	4164 ⁽¹⁾	4162 ⁽¹⁾
6/1/09	NM	NM	NM	4172.02	NM	N/A	NM	NM	N/A	4162 ⁽¹⁾	N/A	4170 ⁽¹⁾	4169 ⁽¹⁾
10/26/09	NM	NM	NM	4165.23	NM	N/A	NM	NM	N/A	4159 ⁽¹⁾	N/A	4164 ⁽¹⁾	4162 ⁽¹⁾

Notes:

NM = Not measured

N/A = Not applicable

(1) Reference elevation estimated from topographic contours (5ft) and field observations

(2) Deeper than tape, 2 ft. of water in well, DTW calculated from TD recorded 12/18/07

(3) Deeper than tape, DTW unknown

(4) 3 in. of water in well, DTW calculated from TD



Figure B-1: Static Water Levels in Shallow Wells

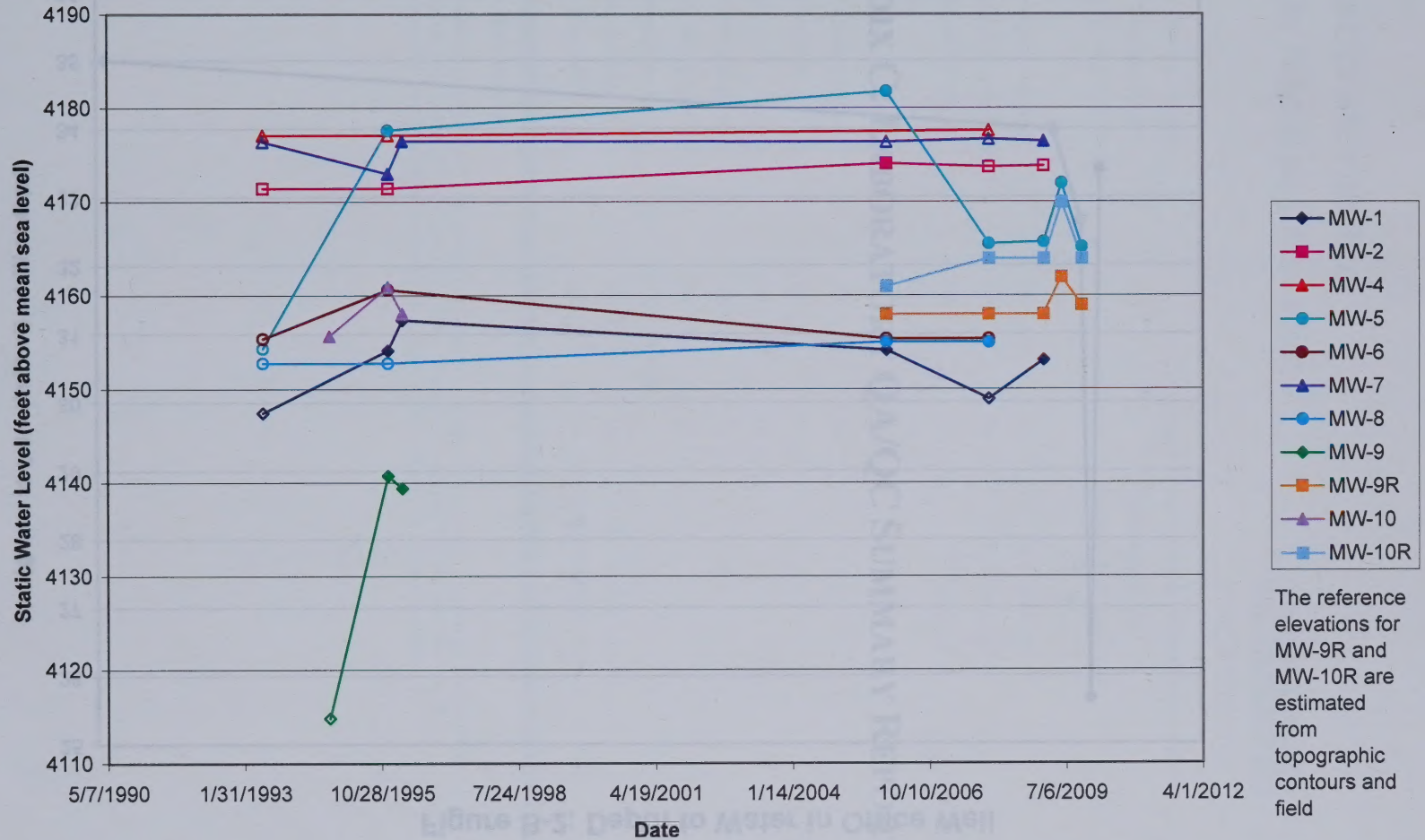
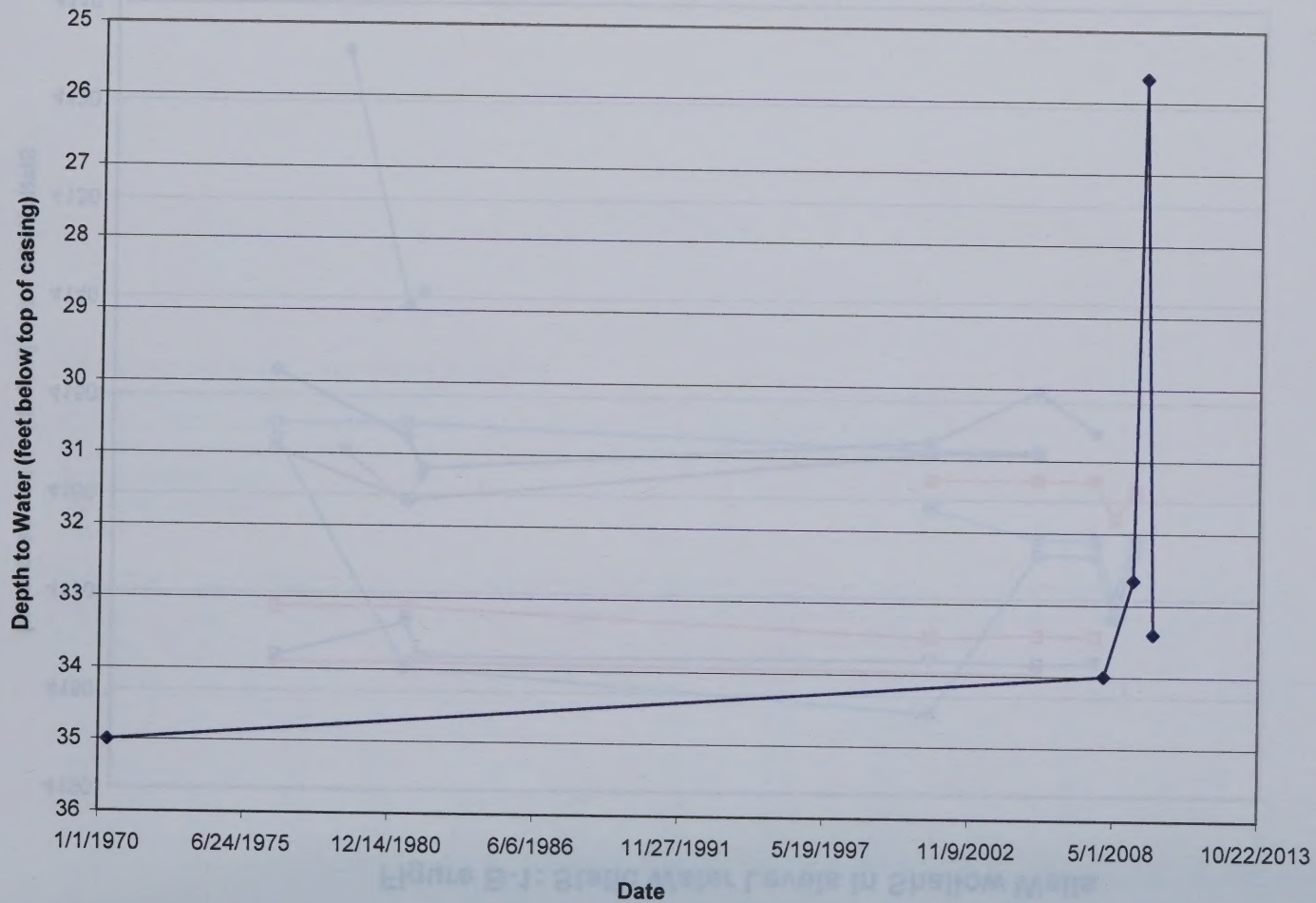


Figure B-2: Depth to Water in Office Well



Energy Laboratories Inc

Workorder Receipt Checklist



H09100352

MT DEQ

Origin assigned by: Tracy L. Lupton

Date and Time Received: 10/23/2008 10:08 AM

Received by: BL2004@epa.gov

Received by: 48

Received Date: 10/23/2008 9:45:27 AM

Carrier name: Terra Co

Shipping container meets required condition? Yes ☒ No ☐ Not Required ☐

Properly sealed Must be airtight and leak proof? Yes ☒ No ☐ Not Required ☒

Container must have no visible damage? Yes ☒ No ☐ Not Required ☒

Check of contents complete? Yes ☒ No ☐

APPENDIX C: LABORATORY QA/QC SUMMARY REPORT

Check of samples against work order details? Yes ☒ No ☐

Sample in proper container? Yes ☒ No ☐

Sample container labeled? Yes ☒ No ☐

Container sample volume for analysis met? Yes ☒ No ☐

All sample fluctuations showing sign? Yes ☒ No ☐

Container/Label Check complete? Yes ☒ No ☐

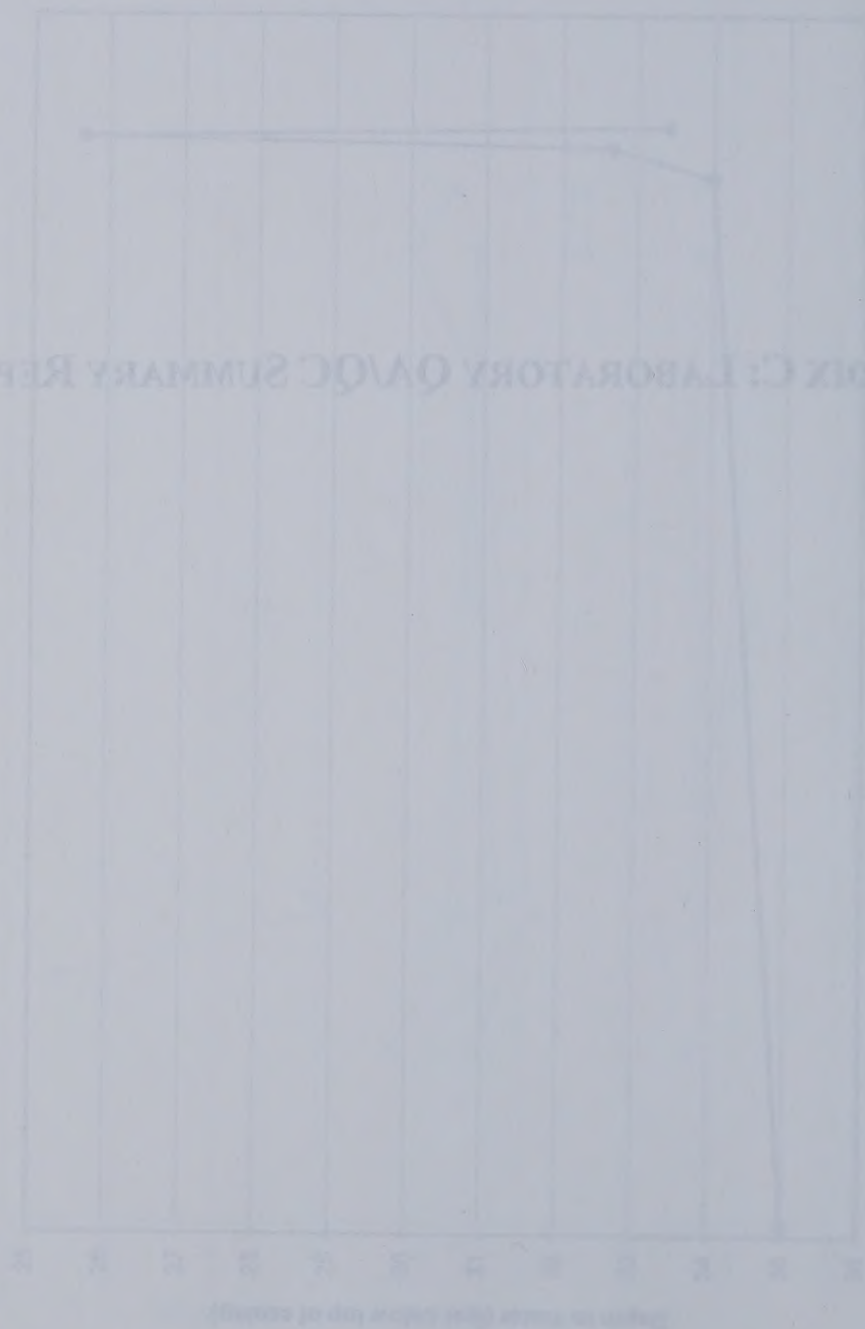
Heavy - VOCs and heavy metals analyzed? Yes ☒ No ☐ No VOCs were analyzed ☐

Water - DHA analysis with results? Yes ☒ No ☐ Not Applicable ☐

General Quality Control Sample Comments:

No tape removed before seal with chain. Chain did not penetrate sample for analysis. All samples from
 separate containers within preserving air design hydrocarbons. Transferred samples to 200.0mL Sodium
 Hydroxide - PB sample 2mL - HACH to determine if this sample. Set. HACH to return sample. 75

Figure B-2: Depth to Water in Observation Well



Energy Laboratories Inc

Workorder Receipt Checklist



MT DEQ

H09100352

Login completed by: Tracy L. Lorash

Date and Time Received: 10/28/2009 10:08 AM

Reviewed by: BL2000\wjohnson

Received by: rlt

Reviewed Date: 10/29/2009 8:49:27 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	2.2°C From Field		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	Not Applicable ☐

Contact and Corrective Action Comments:

No unpreserved bottles sent with client. Client did not preserve sample for cyanide. Poured off sample from cyanide container before preserving with sodium hydroxide. Preserved cyanide bottles with 2ml. Sodium hydroxide. FB sample 2ml. HNO₃ to dissolved metals sample. 2ml. H₂SO₄ to nutrient sample. TL

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: MT DER Solid Waste			Project Name, PWS, Permit, Etc. Mister M Landfill			Sample Origin State: MT		EPA/State Compliance: Yes ☒ No ☐		
Report Mail Address: 1520 East Sixth Ave, Helena, MT 59620			Contact Name: Martin Van Dant Phone/Fax: 444-2802			Email: mmv@montana.com		Sampler: (Please Print) Martin Van Dant		
Invoice Address: Same			Invoice Contact & Phone: Same			Purchase Order:		Quote/Bottle Order: 4814		
Special Report/Formats – ELI must be notified prior to sample submittal for the following: ☐ DW ☐ A2LA ☐ GSA ☐ EDD/EDT (Electronic Data) ☐ POTW/WWTP Format: _____ ☐ State: _____ ☐ LEVEL IV ☐ Other: _____ ☐ NELAC			Number of Containers Sample Type: AWS VBO Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED					
					SEE ATTACHED					
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)			Collection Date		Collection Time		MATRIX		R U S H Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page Comments: Landfill Sample list * Green topped bottles upros no whole topped bottles included Please call re Cyanide analysis	
1 M-M-MW-OW			10/26/09		1330		6W		X X X X X X X X	
2 M-M-MW-HW			10/26/09		1630		6W		X X X X X X X X	
3 M-M-MW-10R			10/27/09		900		6W		X X X X X X X X	
4 M-M-MW-10R-DUP			10/27/09		900		6W		X X X X X X X X	
5 M-M-MW-9R			10/27/09		830		6W		X X X X X X X X	
6 M-M-MW-FB			10/27/09		940		6W		X X X X X X X X	
Trip Blank									X	
8										
9										
10										

Custody Record MUST be Signed	Relinquished by (print): Martin Van Dant	Date/Time: 10/28/09 10:05	Signature: [Signature]	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: [Signature]	Date/Time: 10/28/09 10:08	Signature: [Signature]



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B Analytical Run: MAN-TECH_091028A										
Sample ID: ICV COND Initial Calibration Verification Standard 10/28/09 17:23										
Conductivity		729	umhos/cm	1.0	102	90	110			
Sample ID: CCV COND Continuing Calibration Verification Standard 10/28/09 18:53										
Conductivity		724	umhos/cm	1.0	101	90	110			
Method: A2510 B Batch: R57724										
Sample ID: LCS COND Laboratory Control Sample Run: MAN-TECH_091028A 10/28/09 17:39										
Conductivity		1440	umhos/cm	1.0	102	90	110			
Sample ID: H09100352-002ADUP Sample Duplicate Run: MAN-TECH_091028A 10/28/09 20:04										
Conductivity		798	umhos/cm	1.0				0.4	10	
Method: A4500-H B Analytical Run: PH2_091029A										
Sample ID: CCV1_091029A Continuing Calibration Verification Standard 10/29/09 16:22										
pH		10.1	s.u.	0.10	101	99	101			
Method: A4500-H B Batch: 091029A-PH-W										
Sample ID: LCS1_091029A Laboratory Control Sample Run: PH2_091029A 10/29/09 16:07										
pH		7.03	s.u.	0.10	100	99	101			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ

Report Date: 11/13/09

Project: Mister M Landfill

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC101-H_091029A		
Sample ID: ICV	2	Initial Calibration Verification Standard								10/29/09 18:30
Chloride		2.6	mg/L	1.0	103	90	110			
Sulfate		9.9	mg/L	1.0	99	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								10/30/09 02:59
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		50	mg/L	1.0	101	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								10/30/09 06:49
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		50	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R57789		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC101-H_091029A			10/29/09 18:47	
Chloride		87	mg/L	1.0	99	90	110			
Sulfate		28	mg/L	1.0	97	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC101-H_091029A			10/29/09 19:03	
Chloride		4.9	mg/L	1.0	98	90	110			
Sulfate		9.9	mg/L	1.0	99	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC101-H_091029A			10/29/09 19:20	
Chloride		ND	mg/L	0.05						
Sulfate		ND	mg/L	0.1						
Sample ID: H09100352-001A MS	2	Sample Matrix Spike				Run: IC101-H_091029A			10/30/09 05:27	
Chloride		39	mg/L	1.0	102	90	110			
Sulfate		70	mg/L	1.0	103	90	110			
Sample ID: H09100352-001A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_091029A			10/30/09 05:44	
Chloride		40	mg/L	1.0	102	90	110	0.4	20	
Sulfate		70	mg/L	1.0	103	90	110	0.3	20	
Sample ID: H09100352-006A MS	2	Sample Matrix Spike				Run: IC101-H_091029A			10/30/09 07:55	
Chloride		25	mg/L	1.0	98	90	110			
Sulfate		52	mg/L	1.0	103	90	110			
Sample ID: H09100352-006A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_091029A			10/30/09 08:11	
Chloride		24	mg/L	1.0	96	90	110	1.8	20	
Sulfate		51	mg/L	1.0	102	90	110	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod										Batch: B_42473
Sample ID: LCS-42473	Laboratory Control Sample					Run: SUB-B138565		11/04/09 14:21		
Cyanide, Total		0.104	mg/L	0.0050	104	90	110			
Sample ID: MB-42473										11/04/09 14:27
Cyanide, Total	Method Blank					Run: SUB-B138565				
		ND	mg/L	0.002						
Sample ID: H09100352-004D										11/04/09 15:31
Cyanide, Total	Sample Matrix Spike					Run: SUB-B138565		S		
		0.0879	mg/L	0.0050	88	90	110			
Sample ID: H09100352-004D										11/04/09 15:33
Cyanide, Total	Sample Matrix Spike Duplicate					Run: SUB-B138565		S		
		0.0883	mg/L	0.0050	88	90	110	0.5	10	
Method: Kelada mod										Analytical Run: SUB-B138484
Sample ID: ICV-1	Initial Calibration Verification Standard					11/03/09 10:08				
Cyanide, Total		0.142	mg/L	0.0050	95	90	110			
Method: Kelada mod										Batch: B_R138484
Sample ID: LFB-2	Laboratory Fortified Blank					Run: SUB-B138484		11/03/09 10:09		
Cyanide, Total		0.102	mg/L	0.0050	102	90	110			
Sample ID: MBLK-3										11/03/09 10:11
Cyanide, Total	Method Blank					Run: SUB-B138484				
		ND	mg/L	0.002						
Sample ID: H09100352-004D										11/03/09 15:07
Cyanide, Total	Sample Matrix Spike					Run: SUB-B138484		S		
		0.125	mg/L	0.0050	116	90	110			
Sample ID: H09100352-004D										11/03/09 15:08
Cyanide, Total	Sample Matrix Spike Duplicate					Run: SUB-B138484		S		
		0.119	mg/L	0.0050	110	90	110	5.1	10	
Method: Kelada mod										Analytical Run: SUB-B138565
Sample ID: ICV-1	Initial Calibration Verification Standard					11/04/09 14:05				
Cyanide, Total		0.149	mg/L	0.0050	99	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 11/13/09

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E410.4		Analytical Run: SPECTRO_091111A								
Sample ID: CCV		Continuing Calibration Verification Standard								11/11/09 11:00
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	99	90	110			
Method: E410.4		Batch: R58079								
Sample ID: LCS		Laboratory Control Sample								11/11/09 11:00
Oxygen Demand, Chemical (COD)		310	mg/L	4.7	103	90	110			
Sample ID: MBLK		Method Blank								11/11/09 11:00
Oxygen Demand, Chemical (COD)		ND	mg/L	0.9						
Sample ID: H09100352-004BMS		Sample Matrix Spike								11/11/09 11:00
Oxygen Demand, Chemical (COD)		51	mg/L	1.0	97	90	110			
Sample ID: H09100352-004BMSD		Sample Matrix Spike Duplicate								11/11/09 11:00
Oxygen Demand, Chemical (COD)		52	mg/L	1.0	98	90	110	0.6	20	
Sample ID: H09110012-001DDUP		Sample Duplicate								11/11/09 11:00
Oxygen Demand, Chemical (COD)		12	mg/L	1.0				2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2							Analytical Run: NUTRIENTS_091029B			
Sample ID: ICV-1		Initial Calibration Verification Standard								10/29/09 15:12
Nitrogen, Nitrate+Nitrite as N		1.010	mg/L	0.050	101	90	110			
Sample ID: CCV-19		Continuing Calibration Verification Standard								10/29/09 15:48
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110			
Sample ID: CCV-30		Continuing Calibration Verification Standard								10/29/09 16:10
Nitrogen, Nitrate+Nitrite as N		0.5100	mg/L	0.050	102	90	110			
Method: E353.2							Batch: A2009-10-29_5_NO3_01			
Sample ID: LCS-2		Laboratory Control Sample				Run: NUTRIENTS_091029B				10/29/09 15:15
Nitrogen, Nitrate+Nitrite as N		15.80	mg/L	0.095	104	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank				Run: NUTRIENTS_091029B				10/29/09 15:16
Nitrogen, Nitrate+Nitrite as N		0.5300	mg/L	0.050	106	90	110			
Sample ID: MBLK-7		Method Blank				Run: NUTRIENTS_091029B				10/29/09 15:24
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010						
Sample ID: H09100328-005DMS		Sample Matrix Spike				Run: NUTRIENTS_091029B				10/29/09 15:56
Nitrogen, Nitrate+Nitrite as N		1.100	mg/L	0.050	110	90	110			
Sample ID: H09100328-005DMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_091029B				10/29/09 15:58
Nitrogen, Nitrate+Nitrite as N		1.090	mg/L	0.050	109	90	110	0.9	20	
Sample ID: H09100360-001DMS		Sample Matrix Spike				Run: NUTRIENTS_091029B				10/29/09 16:24
Nitrogen, Nitrate+Nitrite as N		1.030	mg/L	0.050	103	90	110			
Sample ID: H09100360-001DMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_091029B				10/29/09 16:26
Nitrogen, Nitrate+Nitrite as N		1.070	mg/L	0.050	107	90	110	3.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8				Analytical Run: ICPMS204-B_091102A						
Sample ID: QCS-090602A,090609				17 Initial Calibration Verification Standard						11/02/09 12:26
Antimony		0.0495	mg/L	0.050	99	90	110			
Arsenic		0.0504	mg/L	0.0050	101	90	110			
Barium		0.0499	mg/L	0.10	100	90	110			
Beryllium		0.0258	mg/L	0.0010	103	90	110			
Cadmium		0.0260	mg/L	0.0010	104	90	110			
Chromium		0.0500	mg/L	0.010	100	90	110			
Cobalt		0.0508	mg/L	0.010	102	90	110			
Copper		0.0513	mg/L	0.010	103	90	110			
Iron		0.255	mg/L	0.030	100	90	110			
Lead		0.0504	mg/L	0.010	101	90	110			
Mercury		0.00206	mg/L	0.0010	103	90	110			
Nickel		0.0505	mg/L	0.010	101	90	110			
Selenium		0.0511	mg/L	0.0050	102	90	110			
Silver		0.0250	mg/L	0.0050	100	90	110			
Thallium		0.0504	mg/L	0.10	101	90	110			
Vanadium		0.0495	mg/L	0.10	99	90	110			
Zinc		0.0519	mg/L	0.010	104	90	110			
Sample ID: ICSA-090423A				17 Interference Check Sample A						11/02/09 12:33
Antimony		0.00209	mg/L	0.050						
Arsenic		8.60E-05	mg/L	0.0050						
Barium		8.30E-05	mg/L	0.10						
Beryllium		6.00E-06	mg/L	0.0010						
Cadmium		0.000261	mg/L	0.0010						
Chromium		0.000671	mg/L	0.010						
Cobalt		0.000156	mg/L	0.010						
Copper		0.000383	mg/L	0.010						
Iron		107	mg/L	0.030	107	70	130			
Lead		0.000587	mg/L	0.010						
Mercury		4.10E-05	mg/L	0.0010						
Nickel		0.000642	mg/L	0.010						
Selenium		5.90E-05	mg/L	0.0050						
Silver		4.60E-05	mg/L	0.0050						
Thallium		8.50E-05	mg/L	0.10						
Vanadium		0.000143	mg/L	0.10						
Zinc		0.00206	mg/L	0.010						
Sample ID: ICSAB-090423A,09010				17 Interference Check Sample AB						11/02/09 12:40
Antimony		0.00202	mg/L	0.050		0	0			
Arsenic		0.0111	mg/L	0.0050	111	70	130			
Barium		5.40E-05	mg/L	0.10		0	0			
Beryllium		4.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0106	mg/L	0.0010	106	70	130			
Chromium		0.0218	mg/L	0.010	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_091102A								
Sample ID: ICSAB-090423A,09010 17 Interference Check Sample AB										11/02/09 12:40
Cobalt		0.0221	mg/L	0.010	111	70	130			
Copper		0.0215	mg/L	0.010	108	70	130			
Iron		105	mg/L	0.030	105	70	130			
Lead		0.000576	mg/L	0.010		0	0			
Mercury		2.80E-05	mg/L	0.0010		0	0			
Nickel		0.0217	mg/L	0.010	108	70	130			
Selenium		0.0104	mg/L	0.0050	104	70	130			
Silver		0.0213	mg/L	0.0050	106	70	130			
Thallium		-0.000101	mg/L	0.10		0	0			
Vanadium		0.0217	mg/L	0.10	108	70	130			
Zinc		0.0123	mg/L	0.010	123	70	130			
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard										11/02/09 16:18
Antimony		0.0495	mg/L	0.050	99	90	110			
Arsenic		0.0493	mg/L	0.0050	99	90	110			
Barium		0.0488	mg/L	0.10	98	90	110			
Beryllium		0.0247	mg/L	0.0010	99	90	110			
Cadmium		0.0256	mg/L	0.0010	102	90	110			
Chromium		0.0505	mg/L	0.010	101	90	110			
Cobalt		0.0501	mg/L	0.010	100	90	110			
Copper		0.0505	mg/L	0.010	101	90	110			
Iron		0.254	mg/L	0.030	99	90	110			
Lead		0.0495	mg/L	0.010	99	90	110			
Mercury		0.00202	mg/L	0.0010	101	90	110			
Nickel		0.0503	mg/L	0.010	101	90	110			
Selenium		0.0492	mg/L	0.0050	98	90	110			
Silver		0.0248	mg/L	0.0050	99	90	110			
Thallium		0.0498	mg/L	0.10	100	90	110			
Vanadium		0.0493	mg/L	0.10	99	90	110			
Zinc		0.0509	mg/L	0.010	102	90	110			
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard										11/03/09 01:36
Antimony		0.0504	mg/L	0.050	101	90	110			
Arsenic		0.0492	mg/L	0.0050	98	90	110			
Barium		0.0501	mg/L	0.10	100	90	110			
Beryllium		0.0246	mg/L	0.0010	99	90	110			
Cadmium		0.0261	mg/L	0.0010	104	90	110			
Chromium		0.0494	mg/L	0.010	99	90	110			
Cobalt		0.0503	mg/L	0.010	101	90	110			
Copper		0.0499	mg/L	0.010	100	90	110			
Iron		0.254	mg/L	0.030	99	90	110			
Lead		0.0499	mg/L	0.010	100	90	110			
Mercury		0.00202	mg/L	0.0010	101	90	110			
Nickel		0.0500	mg/L	0.010	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M LandfillReport Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS204-B_091102A				
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard						11/03/09 01:36				
Selenium		0.0493	mg/L	0.0050	99	90	110			
Silver		0.0254	mg/L	0.0050	102	90	110			
Thallium		0.0502	mg/L	0.10	100	90	110			
Vanadium		0.0488	mg/L	0.10	98	90	110			
Zinc		0.0497	mg/L	0.010	99	90	110			
Sample ID: ICSA-090423A 17 Interference Check Sample A						11/03/09 01:43				
Antimony		0.00219	mg/L	0.050						
Arsenic		8.30E-05	mg/L	0.0050						
Barium		-0.000459	mg/L	0.10						
Beryllium		1.30E-05	mg/L	0.0010						
Cadmium		0.000316	mg/L	0.0010						
Chromium		0.000944	mg/L	0.010						
Cobalt		1.50E-05	mg/L	0.010						
Copper		0.000278	mg/L	0.010						
Iron		111	mg/L	0.030	111	70	130			
Lead		0.000618	mg/L	0.010						
Mercury		3.60E-05	mg/L	0.0010						
Nickel		0.000707	mg/L	0.010						
Selenium		5.70E-05	mg/L	0.0050						
Silver		4.20E-05	mg/L	0.0050						
Thallium		9.10E-05	mg/L	0.10						
Vanadium		0.000165	mg/L	0.10						
Zinc		0.00194	mg/L	0.010						
Sample ID: ICSAB-090423A,09010 17 Interference Check Sample AB						11/03/09 01:49				
Antimony		0.00208	mg/L	0.050		0	0			
Arsenic		0.0114	mg/L	0.0050	114	70	130			
Barium		-0.000464	mg/L	0.10		0	0			
Beryllium		8.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0112	mg/L	0.0010	112	70	130			
Chromium		0.0230	mg/L	0.010	115	70	130			
Cobalt		0.0229	mg/L	0.010	115	70	130			
Copper		0.0222	mg/L	0.010	111	70	130			
Iron		112	mg/L	0.030	112	70	130			
Lead		0.000593	mg/L	0.010		0	0			
Mercury		2.40E-05	mg/L	0.0010		0	0			
Nickel		0.0226	mg/L	0.010	113	70	130			
Selenium		0.0110	mg/L	0.0050	110	70	130			
Silver		0.0224	mg/L	0.0050	112	70	130			
Thallium		5.70E-05	mg/L	0.10		0	0			
Vanadium		0.0225	mg/L	0.10	113	70	130			
Zinc		0.0131	mg/L	0.010	131	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ

Report Date: 11/13/09

Project: Mister M Landfill

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Batch: R57806								
Sample ID: LFB		Run: ICPMS204-B_091102A								11/02/09 17:05
17 Laboratory Fortified Blank										
Antimony		0.0503	mg/L	0.050	101	85	115			
Arsenic		0.0497	mg/L	0.0050	99	85	115			
Barium		0.0498	mg/L	0.10	99	85	115			
Beryllium		0.0479	mg/L	0.0010	96	85	115			
Cadmium		0.0494	mg/L	0.0010	99	85	115			
Chromium		0.0494	mg/L	0.010	99	85	115			
Cobalt		0.0485	mg/L	0.010	97	85	115			
Copper		0.0487	mg/L	0.010	98	85	115			
Iron		4.90	mg/L	0.030	98	85	115			
Lead		0.0502	mg/L	0.010	100	85	115			
Mercury		0.000976	mg/L	0.0010	97	85	115			
Nickel		0.0490	mg/L	0.010	98	85	115			
Selenium		0.0496	mg/L	0.0050	99	85	115			
Silver		0.0208	mg/L	0.0050	104	85	115			
Thallium		0.0499	mg/L	0.10	100	85	115			
Vanadium		0.0502	mg/L	0.10	100	85	115			
Zinc		0.0506	mg/L	0.010	99	85	115			
Sample ID: H09100358-001AMS		Run: ICPMS204-B_091102A								11/02/09 19:20
17 Sample Matrix Spike										
Antimony		0.0509	mg/L	0.0050	101	70	130			
Arsenic		0.0664	mg/L	0.0050	103	70	130			
Barium		0.0909	mg/L	0.10	100	70	130			
Beryllium		0.0536	mg/L	0.0010	96	70	130			
Cadmium		0.0469	mg/L	0.0010	94	70	130			
Chromium		0.0500	mg/L	0.010	98	70	130			
Cobalt		0.0495	mg/L	0.010	96	70	130			
Copper		1.07	mg/L	0.010		70	130			A
Iron		4.84	mg/L	0.030	97	70	130			
Lead		0.0503	mg/L	0.010	99	70	130			
Mercury		0.00110	mg/L	0.0010	99	70	130			
Nickel		0.0492	mg/L	0.010	96	70	130			
Selenium		0.0723	mg/L	0.0050	110	70	130			
Silver		0.0146	mg/L	0.0050	73	70	130			
Thallium		0.0488	mg/L	0.0050	98	70	130			
Vanadium		0.0638	mg/L	0.10	101	70	130			
Zinc		0.0906	mg/L	0.010	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_091106A		
Sample ID: CCV110609A	53	Continuing Calibration Verification Standard							11/06/09 09:57	
Acetone		41.6	ug/L	20	83	70	130			
Acrylonitrile		45.6	ug/L	20	91	70	130			
Benzene		4.52	ug/L	1.0	90	70	130			
Bromochloromethane		4.32	ug/L	1.0	86	70	130			
Bromodichloromethane		4.52	ug/L	1.0	90	70	130			
Bromoform		4.80	ug/L	1.0	96	70	130			
Bromomethane		4.92	ug/L	1.0	98	70	130			
Carbon disulfide		5.00	ug/L	1.0	100	70	130			
Carbon tetrachloride		4.56	ug/L	1.0	91	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		4.92	ug/L	1.0	98	70	130			
Chloroethane		3.53	ug/L	1.0	71	70	130			
Chloroform		4.40	ug/L	1.0	88	80	120			
Chloromethane		3.54	ug/L	1.0	71	70	130			
1,2-Dibromo-3-chloropropane		4.60	ug/L	1.0	92	70	130			
1,2-Dibromoethane		4.56	ug/L	1.0	91	70	130			
Dibromomethane		4.40	ug/L	1.0	88	70	130			
1,2-Dichlorobenzene		4.80	ug/L	1.0	96	70	130			
1,4-Dichlorobenzene		5.24	ug/L	1.0	105	70	130			
Dichlorodifluoromethane		5.12	ug/L	1.0	102	70	130			
1,1-Dichloroethane		4.72	ug/L	1.0	94	70	130			
1,2-Dichloroethane		3.92	ug/L	1.0	78	70	130			
1,1-Dichloroethene		4.68	ug/L	1.0	94	80	120			
cis-1,2-Dichloroethene		4.44	ug/L	1.0	89	70	130			
trans-1,2-Dichloroethene		4.64	ug/L	1.0	93	70	130			
1,2-Dichloropropane		4.68	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		4.40	ug/L	1.0	88	70	130			
trans-1,3-Dichloropropene		4.80	ug/L	1.0	96	70	130			
Ethylbenzene		5.08	ug/L	1.0	102	80	120			
2-Hexanone		45.6	ug/L	20	91	70	130			
Iodomethane		4.72	ug/L	1.0	94	70	130			
Methyl ethyl ketone		37.4	ug/L	20	75	70	130			
Methyl isobutyl ketone		46.4	ug/L	20	93	70	130			
Methylene chloride		4.24	ug/L	1.0	85	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		4.76	ug/L	1.0	95	70	130			
1,1,2,2-Tetrachloroethane		4.60	ug/L	1.0	92	70	130			
Tetrachloroethene		4.56	ug/L	1.0	91	70	130			
Toluene		4.92	ug/L	1.0	98	80	120			
1,1,1-Trichloroethane		4.56	ug/L	1.0	91	70	130			
1,1,2-Trichloroethane		5.08	ug/L	1.0	102	70	130			
Trichloroethene		4.68	ug/L	1.0	94	70	130			
Trichlorofluoromethane		5.08	ug/L	1.0	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_091106A								
Sample ID: CCV110609A		53 Continuing Calibration Verification Standard								11/06/09 09:57
1,2,3-Trichloropropane		4.88	ug/L	1.0	98	70	130			
Vinyl acetate		4.32	ug/L	1.0	86	70	130			
Vinyl chloride		4.88	ug/L	1.0	98	80	120			
m+p-Xylenes		9.80	ug/L	1.0	98	70	130			
o-Xylene		4.84	ug/L	1.0	97	70	130			
Xylenes, Total		14.6	ug/L	1.0	98	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	83	70	130			
Surr: Dibromofluoromethane				1.0	95	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	107	70	130			

Method: SW8260B		Batch: R57995								
Sample ID: LCS110609B		53 Laboratory Control Sample								11/06/09 11:18
		Run: 1SATURN_091106A								
Acetone		40.4	ug/L	20	81	70	130			
Acrylonitrile		44.8	ug/L	20	90	70	130			
Benzene		3.58	ug/L	1.0	72	70	130			
Bromochloromethane		4.64	ug/L	1.0	93	70	130			
Bromodichloromethane		4.64	ug/L	1.0	93	70	130			
Bromoform		5.08	ug/L	1.0	102	70	130			
Bromomethane		6.08	ug/L	1.0	122	70	130			
Carbon disulfide		4.92	ug/L	1.0	98	70	130			
Carbon tetrachloride		4.40	ug/L	1.0	88	70	130			
Chlorobenzene		5.20	ug/L	1.0	104	70	130			
Chlorodibromomethane		4.96	ug/L	1.0	99	70	130			
Chloroethane		4.72	ug/L	1.0	94	70	130			
Chloroform		4.52	ug/L	1.0	90	70	130			
Chloromethane		3.64	ug/L	1.0	73	70	130			
1,2-Dibromo-3-chloropropane		4.80	ug/L	1.0	96	70	130			
1,2-Dibromoethane		4.60	ug/L	1.0	92	70	130			
Dibromomethane		5.08	ug/L	1.0	102	70	130			
1,2-Dichlorobenzene		5.24	ug/L	1.0	105	70	130			
1,4-Dichlorobenzene		5.32	ug/L	1.0	106	70	130			
Dichlorodifluoromethane		4.68	ug/L	1.0	94	70	130			
1,1-Dichloroethane		4.48	ug/L	1.0	90	70	130			
1,2-Dichloroethane		4.24	ug/L	1.0	85	70	130			
1,1-Dichloroethene		3.53	ug/L	1.0	71	70	130			
cis-1,2-Dichloroethene		4.72	ug/L	1.0	94	70	130			
trans-1,2-Dichloroethene		3.78	ug/L	1.0	76	70	130			
1,2-Dichloropropane		4.76	ug/L	1.0	95	70	130			
cis-1,3-Dichloropropene		4.88	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		5.32	ug/L	1.0	106	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		45.6	ug/L	20	91	70	130			
Iodomethane		4.88	ug/L	1.0	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R57995
Sample ID: LCS110609B	53	Laboratory Control Sample				Run: 1SATURN_091106A				11/06/09 11:18
Methyl ethyl ketone		40.8	ug/L	20	82	70	130			
Methyl isobutyl ketone		44.4	ug/L	20	89	70	130			
Methylene chloride		3.96	ug/L	1.0	79	70	130			
Styrene		5.00	ug/L	1.0	100	70	130			
1,1,1,2-Tetrachloroethane		5.00	ug/L	1.0	100	70	130			
1,1,2,2-Tetrachloroethane		4.80	ug/L	1.0	96	70	130			
Tetrachloroethene		5.04	ug/L	1.0	101	70	130			
Toluene		4.96	ug/L	1.0	99	70	130			
1,1,1-Trichloroethane		4.60	ug/L	1.0	92	70	130			
1,1,2-Trichloroethane		5.20	ug/L	1.0	104	70	130			
Trichloroethene		4.76	ug/L	1.0	95	70	130			
Trichlorofluoromethane		5.24	ug/L	1.0	105	70	130			
1,2,3-Trichloropropane		3.97	ug/L	1.0	79	70	130			
Vinyl acetate		4.40	ug/L	1.0	88	70	130			
Vinyl chloride		5.00	ug/L	1.0	100	70	130			
m+p-Xylenes		10.1	ug/L	1.0	101	70	130			
o-Xylene		5.04	ug/L	1.0	101	70	130			
Xylenes, Total		15.2	ug/L	1.0	101	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	84	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	104	70	130			
Sample ID: MB110609A	53	Method Blank				Run: 1SATURN_091106A				11/06/09 12:34
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 11/13/09

Project: Mister M Landfill

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Batch: R57995		
Sample ID: MB110609A	53	Method Blank			Run: 1SATURN_091106A			11/06/09 12:34		
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	82	70	130			
Surr: Dibromofluoromethane				1.0	99	70	130			
Surr: p-Bromofluorobenzene				1.0	99	70	130			
Surr: Toluene-d8				1.0	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_091109A		
Sample ID: CCV110909A								Continuing Calibration Verification Standard		
								11/09/09 11:12		
Acrylonitrile		47.2	ug/L	20	94	70	130			
cis-1,2-Dichloroethene		4.88	ug/L	1.0	98	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Surr: Toluene-d8				1.0	102	70	130			
Method: SW8260B								Batch: R58042		
Sample ID: LCS110909A								Laboratory Control Sample		
								Run: 1SATURN_091109A		
								11/09/09 11:59		
Acrylonitrile		39.8	ug/L	20	80	70	130			
cis-1,2-Dichloroethene		4.48	ug/L	1.0	90	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	83	70	130			
Surr: Dibromofluoromethane				1.0	97	70	130			
Surr: p-Bromofluorobenzene				1.0	96	70	130			
Surr: Toluene-d8				1.0	99	70	130			
Sample ID: MB110909A								Method Blank		
								Run: 1SATURN_091109A		
								11/09/09 14:10		
Acrylonitrile		ND	ug/L	20						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	100	70	130			
Surr: Toluene-d8				1.0	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-006
Client Sample ID: MrM-MW-FB

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	5.7	s.u.		0.1		A4500-H B	10/29/09 16:26 / hm
Conductivity	ND	umhos/cm		1		A2510 B	10/28/09 20:19 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 15:14 / eli-b
Chloride	ND	mg/L		1		E300.0	10/30/09 07:39 / hm
Sulfate	ND	mg/L		1		E300.0	10/30/09 07:39 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:18 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 19:06 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Iron	0.05	mg/L		0.03		E200.8	11/02/09 19:06 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 16:12 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

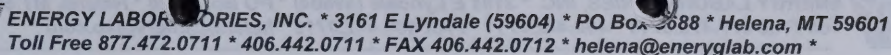
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-006
Client Sample ID: MrM-MW-FB

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Surr: 1,2-Dichloroethane-d4	91.0	%REC		70-130		SW8260B	11/06/09 18:17 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
DateReceived: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	102	%REC		70-130		SW8260B	11/06/09 18:17 / abb
Surr: p-Bromofluorobenzene	106	%REC		70-130		SW8260B	11/06/09 18:17 / abb
Surr: Toluene-d8	102	%REC		70-130		SW8260B	11/06/09 18:17 / abb

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-007
Client Sample ID: SLD LOT# SHP0240

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 988 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energyglab.com *

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-Q07
Client Sample ID: SLD LOT# SHP0240

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Surr: 1,2-Dichloroethane-d4	79.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: p-Bromofluorobenzene	98.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: Toluene-d8	107	%REC		70-130		SW8260B	11/06/09 14:13 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

1. The purpose of this study is to determine the effect of the independent variable on the dependent variable.
 2. The study was conducted in a laboratory setting.
 3. The results of the study are as follows:

Independent Variable	Dependent Variable	Mean	Standard Deviation	t-value	p-value
1. Control	1. Control	10.0	1.0	10.0	0.000
2. Control	2. Control	10.0	1.0	10.0	0.000
3. Control	3. Control	10.0	1.0	10.0	0.000
4. Control	4. Control	10.0	1.0	10.0	0.000
5. Control	5. Control	10.0	1.0	10.0	0.000
6. Control	6. Control	10.0	1.0	10.0	0.000
7. Control	7. Control	10.0	1.0	10.0	0.000
8. Control	8. Control	10.0	1.0	10.0	0.000
9. Control	9. Control	10.0	1.0	10.0	0.000
10. Control	10. Control	10.0	1.0	10.0	0.000
11. Control	11. Control	10.0	1.0	10.0	0.000
12. Control	12. Control	10.0	1.0	10.0	0.000
13. Control	13. Control	10.0	1.0	10.0	0.000
14. Control	14. Control	10.0	1.0	10.0	0.000
15. Control	15. Control	10.0	1.0	10.0	0.000
16. Control	16. Control	10.0	1.0	10.0	0.000
17. Control	17. Control	10.0	1.0	10.0	0.000
18. Control	18. Control	10.0	1.0	10.0	0.000
19. Control	19. Control	10.0	1.0	10.0	0.000
20. Control	20. Control	10.0	1.0	10.0	0.000
21. Control	21. Control	10.0	1.0	10.0	0.000
22. Control	22. Control	10.0	1.0	10.0	0.000
23. Control	23. Control	10.0	1.0	10.0	0.000
24. Control	24. Control	10.0	1.0	10.0	0.000
25. Control	25. Control	10.0	1.0	10.0	0.000
26. Control	26. Control	10.0	1.0	10.0	0.000
27. Control	27. Control	10.0	1.0	10.0	0.000
28. Control	28. Control	10.0	1.0	10.0	0.000
29. Control	29. Control	10.0	1.0	10.0	0.000
30. Control	30. Control	10.0	1.0	10.0	0.000
31. Control	31. Control	10.0	1.0	10.0	0.000
32. Control	32. Control	10.0	1.0	10.0	0.000
33. Control	33. Control	10.0	1.0	10.0	0.000
34. Control	34. Control	10.0	1.0	10.0	0.000
35. Control	35. Control	10.0	1.0	10.0	0.000
36. Control	36. Control	10.0	1.0	10.0	0.000
37. Control	37. Control	10.0	1.0	10.0	0.000
38. Control	38. Control	10.0	1.0	10.0	0.000
39. Control	39. Control	10.0	1.0	10.0	0.000
40. Control	40. Control	10.0	1.0	10.0	0.000
41. Control	41. Control	10.0	1.0	10.0	0.000
42. Control	42. Control	10.0	1.0	10.0	0.000
43. Control	43. Control	10.0	1.0	10.0	0.000
44. Control	44. Control	10.0	1.0	10.0	0.000
45. Control	45. Control	10.0	1.0	10.0	0.000
46. Control	46. Control	10.0	1.0	10.0	0.000
47. Control	47. Control	10.0	1.0	10.0	0.000
48. Control	48. Control	10.0	1.0	10.0	0.000
49. Control	49. Control	10.0	1.0	10.0	0.000
50. Control	50. Control	10.0	1.0	10.0	0.000
51. Control	51. Control	10.0	1.0	10.0	0.000
52. Control	52. Control	10.0	1.0	10.0	0.000
53. Control	53. Control	10.0	1.0	10.0	0.000
54. Control	54. Control	10.0	1.0	10.0	0.000
55. Control	55. Control	10.0	1.0	10.0	0.000
56. Control	56. Control	10.0	1.0	10.0	0.000
57. Control	57. Control	10.0	1.0	10.0	0.000
58. Control	58. Control	10.0	1.0	10.0	0.000
59. Control	59. Control	10.0	1.0	10.0	0.000
60. Control	60. Control	10.0	1.0	10.0	0.000
61. Control	61. Control	10.0	1.0	10.0	0.000
62. Control	62. Control	10.0	1.0	10.0	0.000
63. Control	63. Control	10.0	1.0	10.0	0.000
64. Control	64. Control	10.0	1.0	10.0	0.000
65. Control	65. Control	10.0	1.0	10.0	0.000
66. Control	66. Control	10.0	1.0	10.0	0.000
67. Control	67. Control	10.0	1.0	10.0	0.000
68. Control	68. Control	10.0	1.0	10.0	0.000
69. Control	69. Control	10.0	1.0	10.0	0.000
70. Control	70. Control	10.0	1.0	10.0	0.000
71. Control	71. Control	10.0	1.0	10.0	0.000
72. Control	72. Control	10.0	1.0	10.0	0.000
73. Control	73. Control	10.0	1.0	10.0	0.000
74. Control	74. Control	10.0	1.0	10.0	0.000
75. Control	75. Control	10.0	1.0	10.0	0.000
76. Control	76. Control	10.0	1.0	10.0	0.000
77. Control	77. Control	10.0	1.0	10.0	0.000
78. Control	78. Control	10.0	1.0	10.0	0.000
79. Control	79. Control	10.0	1.0	10.0	0.000
80. Control	80. Control	10.0	1.0	10.0	0.000
81. Control	81. Control	10.0	1.0	10.0	0.000
82. Control	82. Control	10.0	1.0	10.0	0.000
83. Control	83. Control	10.0	1.0	10.0	0.000
84. Control	84. Control	10.0	1.0	10.0	0.000
85. Control	85. Control	10.0	1.0	10.0	0.000
86. Control	86. Control	10.0	1.0	10.0	0.000
87. Control	87. Control	10.0	1.0	10.0	0.000
88. Control	88. Control	10.0	1.0	10.0	0.000
89. Control	89. Control	10.0	1.0	10.0	0.000
90. Control	90. Control	10.0	1.0	10.0	0.000
91. Control	91. Control	10.0	1.0	10.0	0.000
92. Control	92. Control	10.0	1.0	10.0	0.000
93. Control	93. Control	10.0	1.0	10.0	0.000
94. Control	94. Control	10.0	1.0	10.0	0.000
95. Control	95. Control	10.0	1.0	10.0	0.000
96. Control	96. Control	10.0	1.0	10.0	0.000
97. Control	97. Control	10.0	1.0	10.0	0.000
98. Control	98. Control	10.0	1.0	10.0	0.000
99. Control	99. Control	10.0	1.0	10.0	0.000
100. Control	100. Control	10.0	1.0	10.0	0.000

1. The results of the study are as follows:
 2. The study was conducted in a laboratory setting.
 3. The purpose of this study is to determine the effect of the independent variable on the dependent variable.

APPENDIX D: LABORATORY ANALYTICAL REPORT

100%—Foster Care and Adoption: 2008
2008 Jan 1

APPENDIX D: LABORATORY ANALYTICAL REPORT

ANALYTICAL SUMMARY REPORT

November 13, 2009

Martin VanDort

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09100352

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 7 samples for MT DEQ on 10/28/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100352-001	MrM-MW-DW OW -mv0	10/26/09 13:30	10/28/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09100352-002	MrM-MW-HW	10/26/09 16:30	10/28/09	Aqueous	Same As Above
H09100352-003	MrM-MW-10R	10/27/09 9:00	10/28/09	Aqueous	Same As Above
H09100352-004	MrM-MW-10R-DUP	10/27/09 9:00	10/28/09	Aqueous	Same As Above
H09100352-005	MrM-MW-9R	10/27/09 8:30	10/28/09	Aqueous	Same As Above
H09100352-006	MrM-MW-FB	10/27/09 9:40	10/28/09	Aqueous	Same As Above
H09100352-007	SLD LOT# SHP0240	10/26/09 13:30	10/28/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

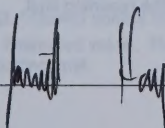
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____





LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW, DW, OW
-MVD

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.1	s.u.		0.1		A4500-H B	10/29/09 16:20 / hm
Conductivity	683	umhos/cm		1		A2510 B	10/28/09 19:57 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:47 / eli-b
Chloride	14	mg/L		1		E300.0	10/30/09 05:11 / hm
Sulfate	18	mg/L		1		E300.0	10/30/09 05:11 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	8	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:33 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Barium	0.1	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Iron	2.38	mg/L		0.03		E200.8	11/02/09 18:33 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Zinc	0.04	mg/L		0.01		E200.8	11/02/09 18:33 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 20:19 / abb
Benzene	0.89	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW-DW *Q W*

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
cis-1,2-Dichloroethene	22	ug/L		5.0		SW8260B	11/09/09 14:40 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Ethylbenzene	5.4	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Styrene	2.1	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Trichloroethene	0.24	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Vinyl chloride	0.59	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
m+p-Xylenes	0.61	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Xylenes, Total	0.61	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Surr: 1,2-Dichloroethane-d4	93.0	%REC		70-130		SW8260B	11/06/09 16:15 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW-DW 0 W

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
DateReceived: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	11/06/09 16:15 / abb
Surr: p-Bromofluorobenzene	101	%REC		70-130		SW8260B	11/06/09 16:15 / abb
Surr: Toluene-d8	110	%REC		70-130		SW8260B	11/06/09 16:15 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-002
Client Sample ID: MrM-MW-HW

Report Date: 11/13/09
Collection Date: 10/26/09 16:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:21 / hm
Conductivity	795	umhos/cm		1		A2510 B	10/28/09 20:00 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:48 / eli-b
Chloride	8	mg/L		1		E300.0	10/30/09 06:00 / hm
Sulfate	36	mg/L		1		E300.0	10/30/09 06:00 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:06 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:40 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:40 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Zinc	0.10	mg/L		0.01		E200.8	11/02/09 18:40 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 19:48 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

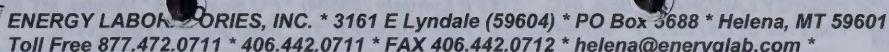
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-002
Client Sample ID: MrM-MW-HW

Report Date: 11/13/09
Collection Date: 10/26/09 16:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Surr: 1,2-Dichloroethane-d4	90.0	%REC		70-130		SW8260B	11/06/09 15:45 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-002
Client Sample ID: MrM-MW-HW

Report Date: 11/13/09
Collection Date: 10/26/09 16:30
DateReceived: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	11/06/09 15:45 / abb
Surr: p-Bromofluorobenzene	102	%REC		70-130		SW8260B	11/06/09 15:45 / abb
Surr: Toluene-d8	105	%REC		70-130		SW8260B	11/06/09 15:45 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-003
Client Sample ID: MrM-MW-10R

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:23 / hm
Conductivity	1080	umhos/cm		1		A2510 B	10/28/09 20:08 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:50 / eli-b
Chloride	17	mg/L		1		E300.0	10/30/09 06:16 / hm
Sulfate	88	mg/L		1		E300.0	10/30/09 06:16 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.82	mg/L		0.05		E353.2	10/29/09 16:12 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:46 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:46 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Selenium	0.081	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 20:49 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-003
Client Sample ID: MrM-MW-10R

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Toluene	0.19	ug/L	J	1.0		SW8260B	11/06/09 16:46 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Surr: 1,2-Dichloroethane-d4	87.0	%REC		70-130		SW8260B	11/06/09 16:46 / abb

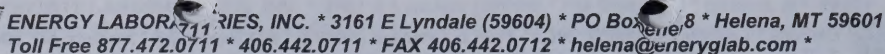
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-003
Client Sample ID: MrM-MW-10R

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
DateReceived: 10/28/09
Matrix: Aqueous

[illegible]

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-004
Client Sample ID: MrM-MW-10R-DUP

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.2	s.u.		0.1		A4500-H B	10/29/09 16:24 / hm
Conductivity	1080	umhos/cm		1		A2510 B	10/28/09 20:11 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/04/09 15:29 / eli-b
Chloride	17	mg/L		1		E300.0	10/30/09 06:33 / hm
Sulfate	88	mg/L		1		E300.0	10/30/09 06:33 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.95	mg/L		0.05		E353.2	10/29/09 16:14 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:53 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:53 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Selenium	0.071	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 15:11 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-004
Client Sample ID: MrM-MW-10R-DUP

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Toluene	0.20	ug/L	J	1.0		SW8260B	11/06/09 17:16 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Surr: 1,2-Dichloroethane-d4	86.0	%REC		70-130		SW8260B	11/06/09 17:16 / abb

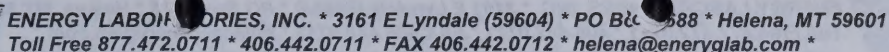
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Report Date: 11/13/09
Collection Date: 10/27/09 09:00
DateReceived: 10/28/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

Report Date: 11/13/09
Collection Date: 10/27/09 08:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:25 / hm
Conductivity	922	umhos/cm		1		A2510 B	10/28/09 20:15 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 15:12 / eli-b
Chloride	14	mg/L		1		E300.0	10/30/09 07:22 / hm
Sulfate	82	mg/L		1		E300.0	10/30/09 07:22 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	4	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	4.04	mg/L		0.05		E353.2	10/29/09 16:16 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 19:00 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 19:00 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 15:41 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

Report Date: 11/13/09
Collection Date: 10/27/09 08:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
cis-1,2-Dichloroethene	2.8	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Tetrachloroethene	0.76	ug/L	J	1.0		SW8260B	11/06/09 17:47 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Trichloroethene	0.22	ug/L	J	1.0		SW8260B	11/06/09 17:47 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Surr: 1,2-Dichloroethane-d4	90.0	%REC		70-130		SW8260B	11/06/09 17:47 / abb

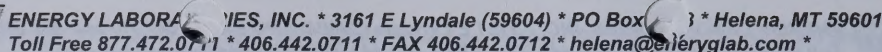
Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

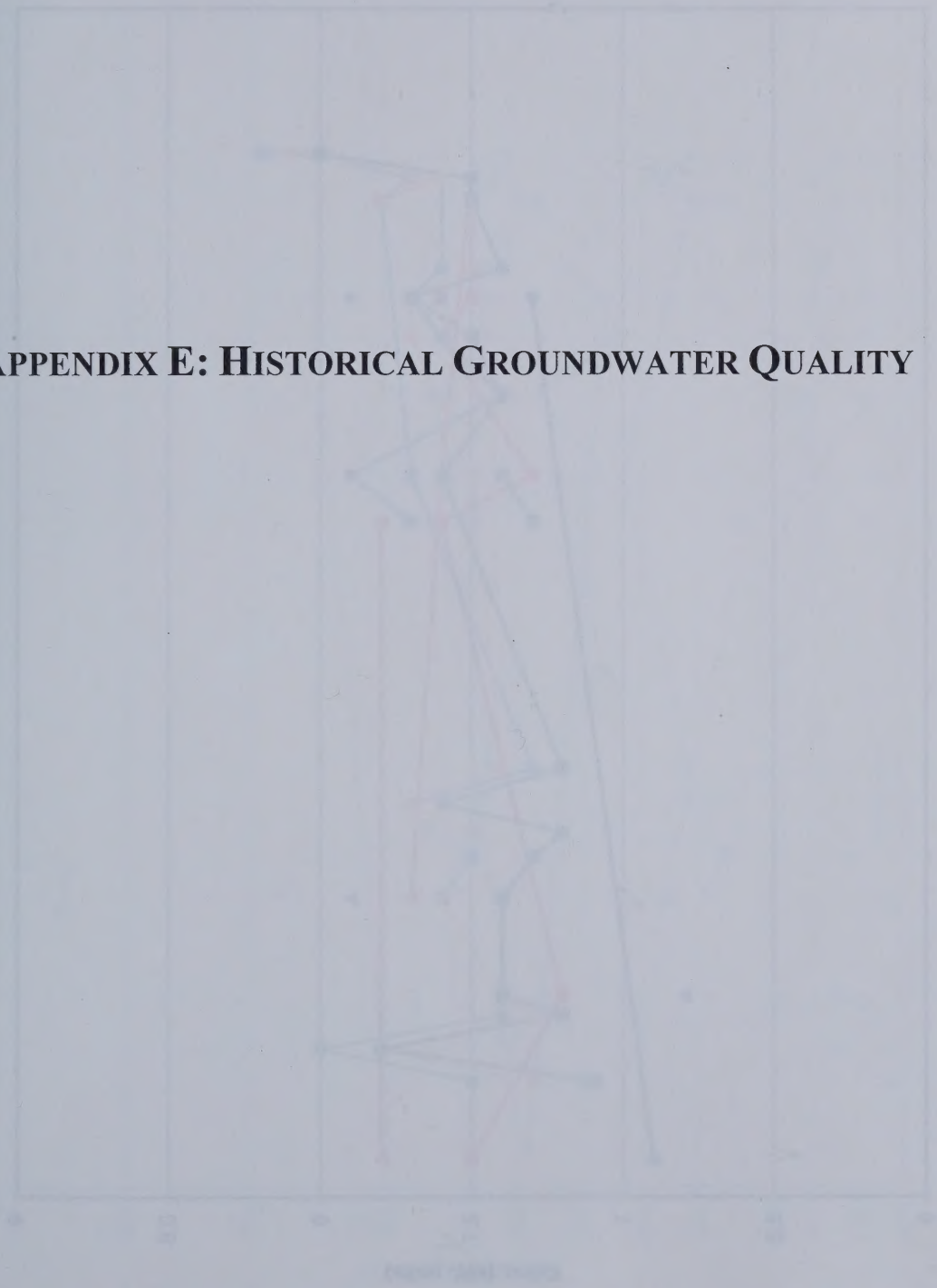
Report Date: 11/13/09
Collection Date: 10/27/09 08:30
DateReceived: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	101	%REC		70-130		SW8260B	11/06/09 17:47 / abb
Surr: p-Bromofluorobenzene	99.0	%REC		70-130		SW8260B	11/06/09 17:47 / abb
Surr: Toluene-d8	102	%REC		70-130		SW8260B	11/06/09 17:47 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

APPENDIX E: HISTORICAL GROUNDWATER QUALITY



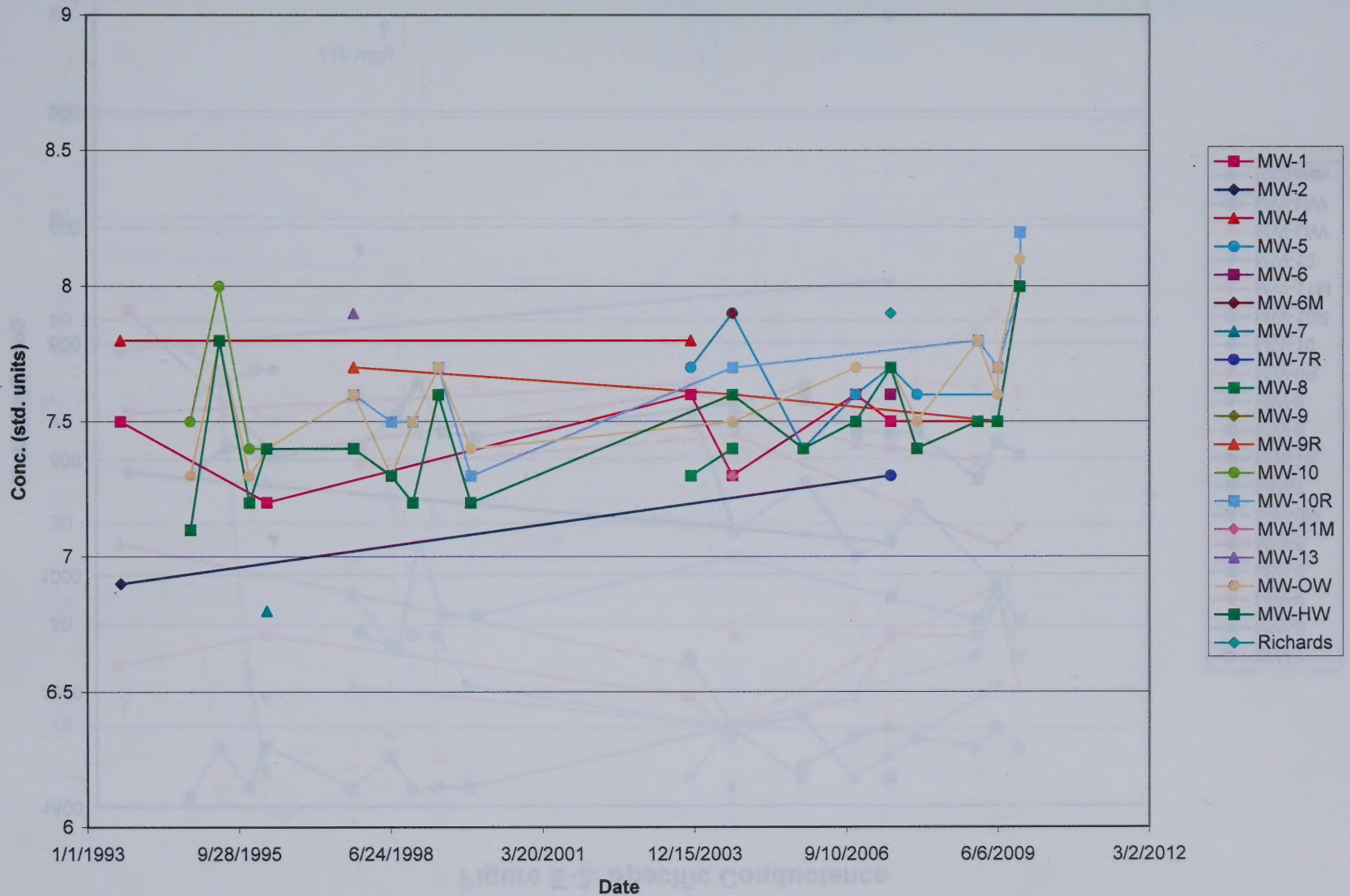


Page 1 of 1
Date: 10/10/2010
Time: 10:10:10
User: admin

Item	Value	Unit	Quantity	Price	Total
1.00	100.00	kg	100	1.00	100.00
2.00	200.00	kg	200	2.00	400.00
3.00	300.00	kg	300	3.00	900.00

ALPHABETIC & HISTORICAL GROUNDWATER QUALITY

Figure E-1: pH



1



Figure E-3: Chloride

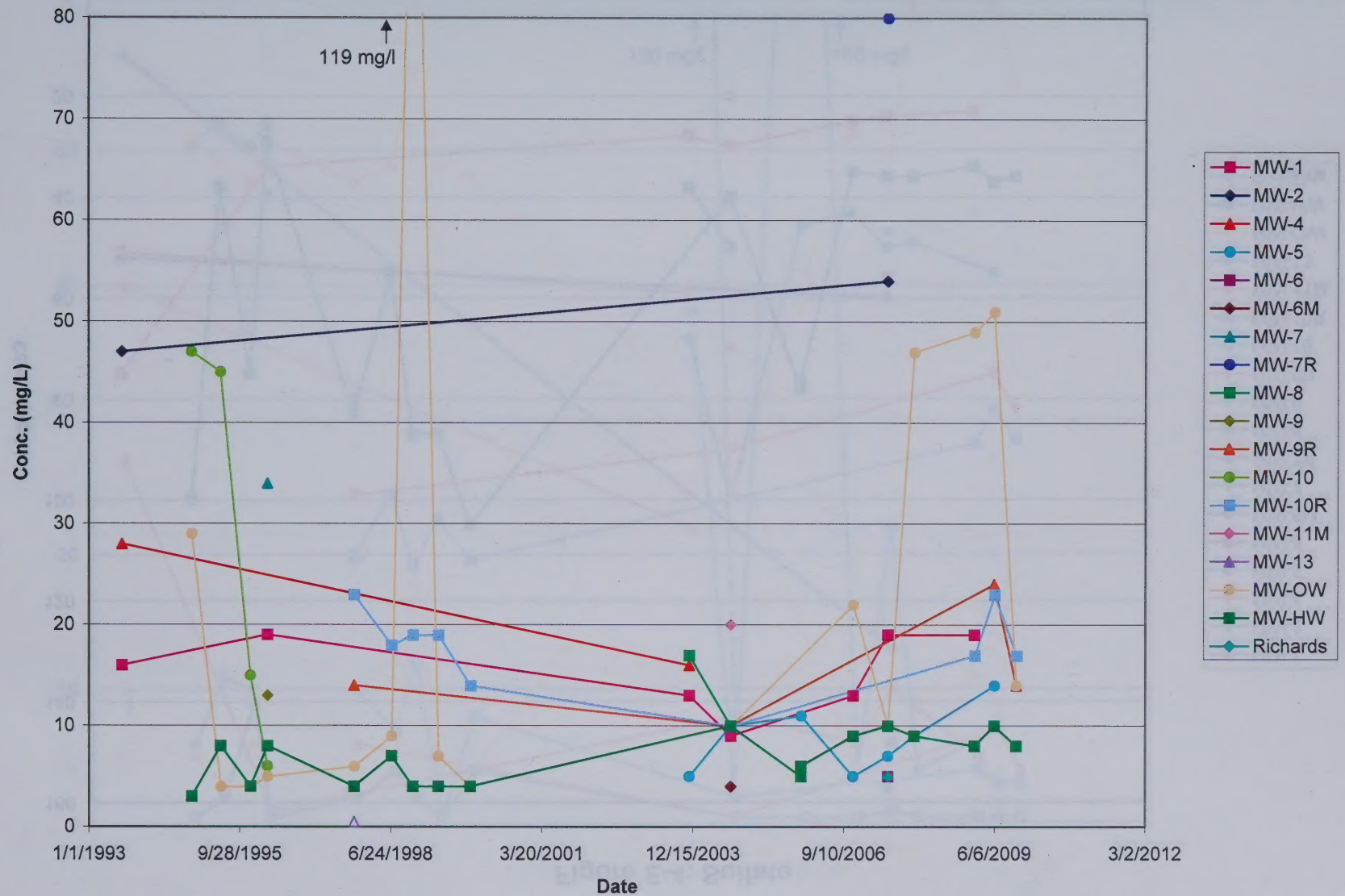
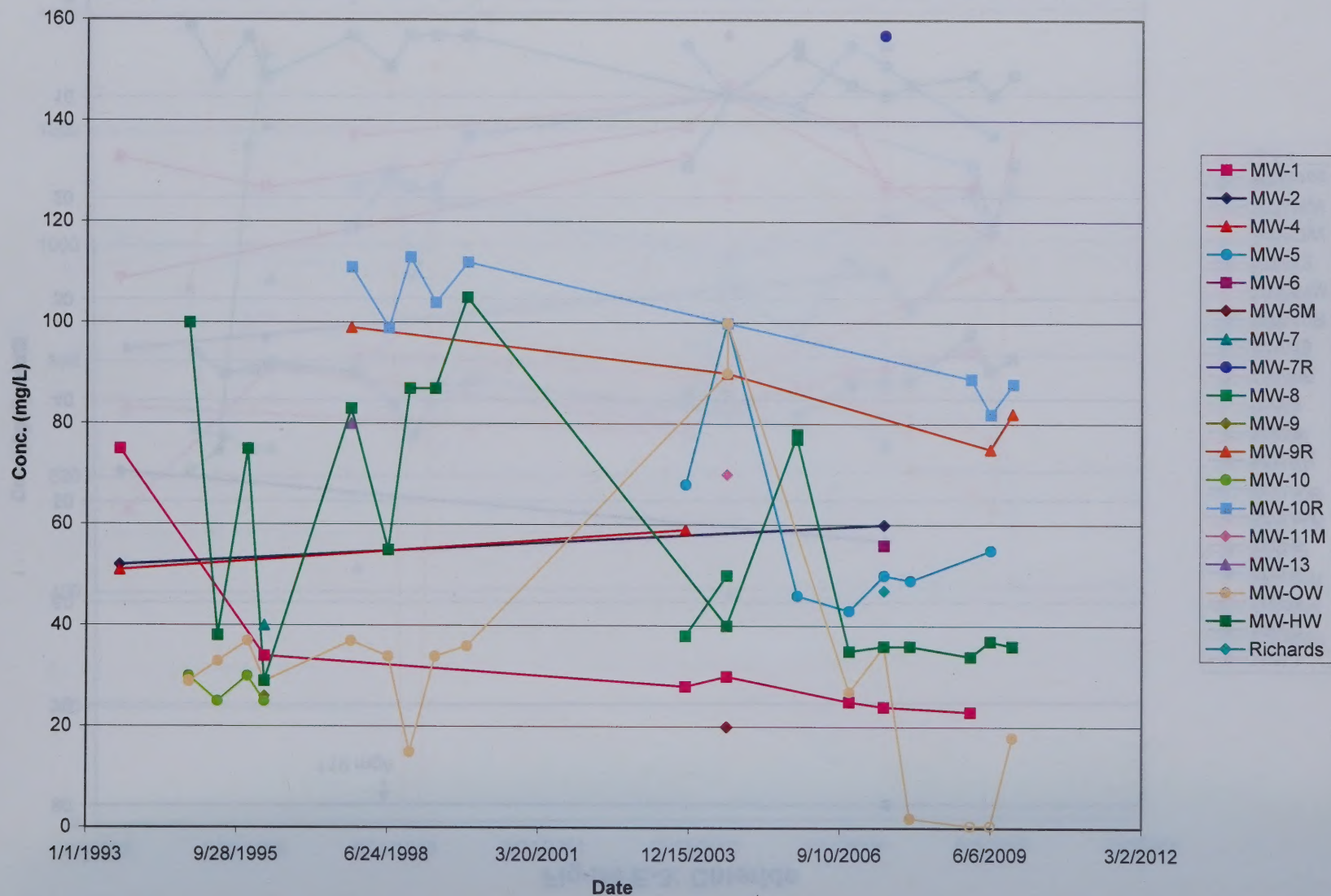


Figure E-4: Sulfate



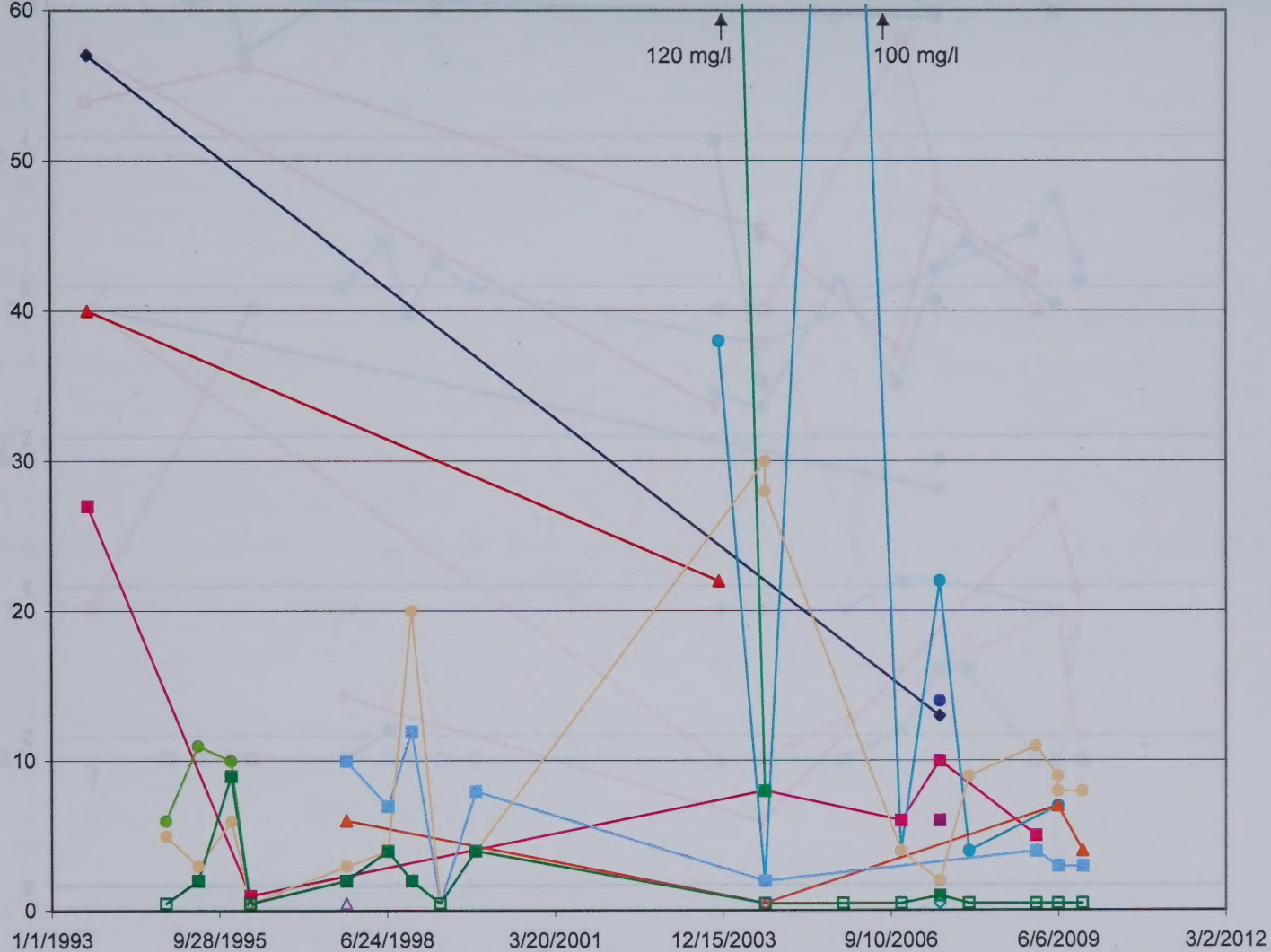
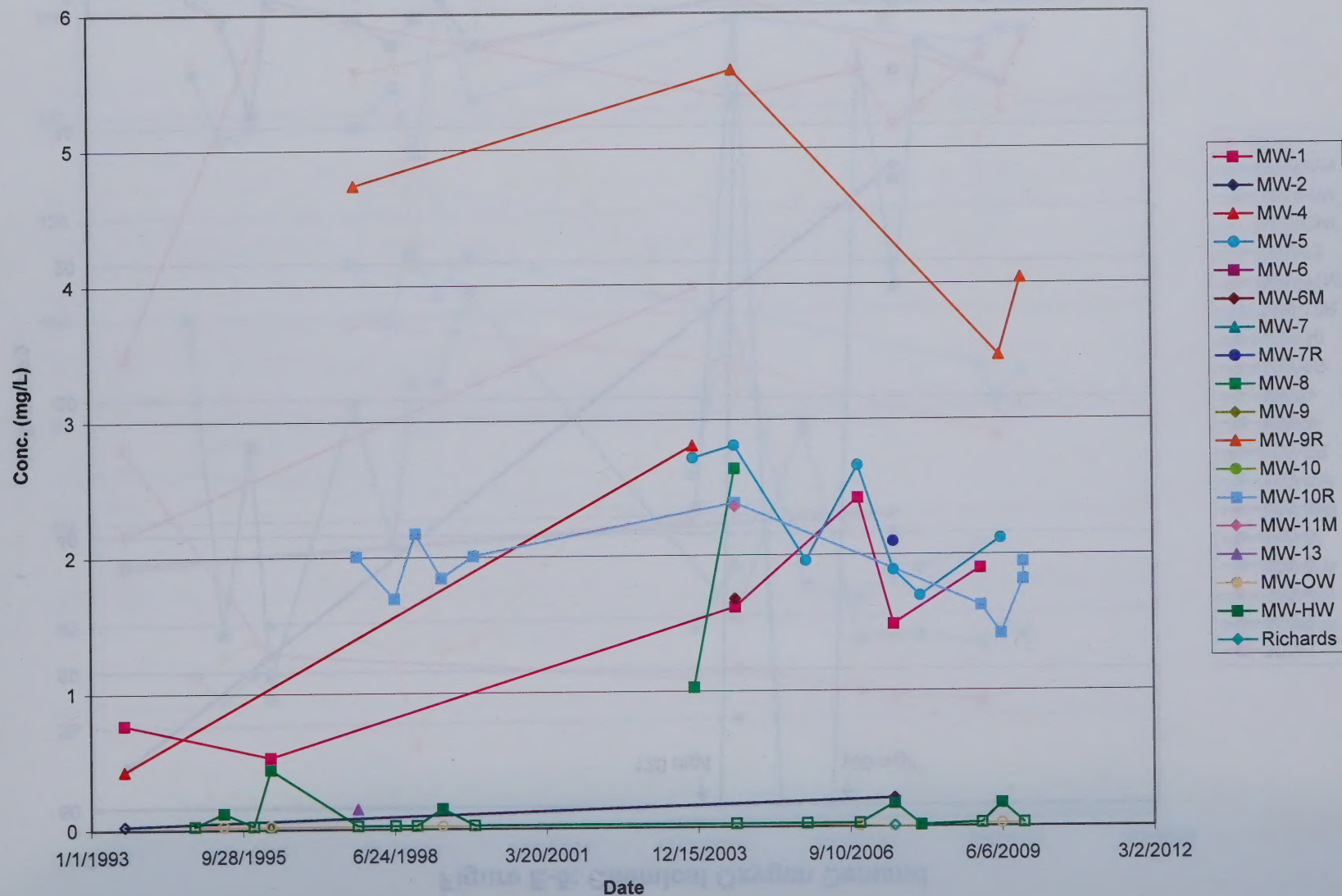


Figure E-6: Nitrate + Nitrite





1

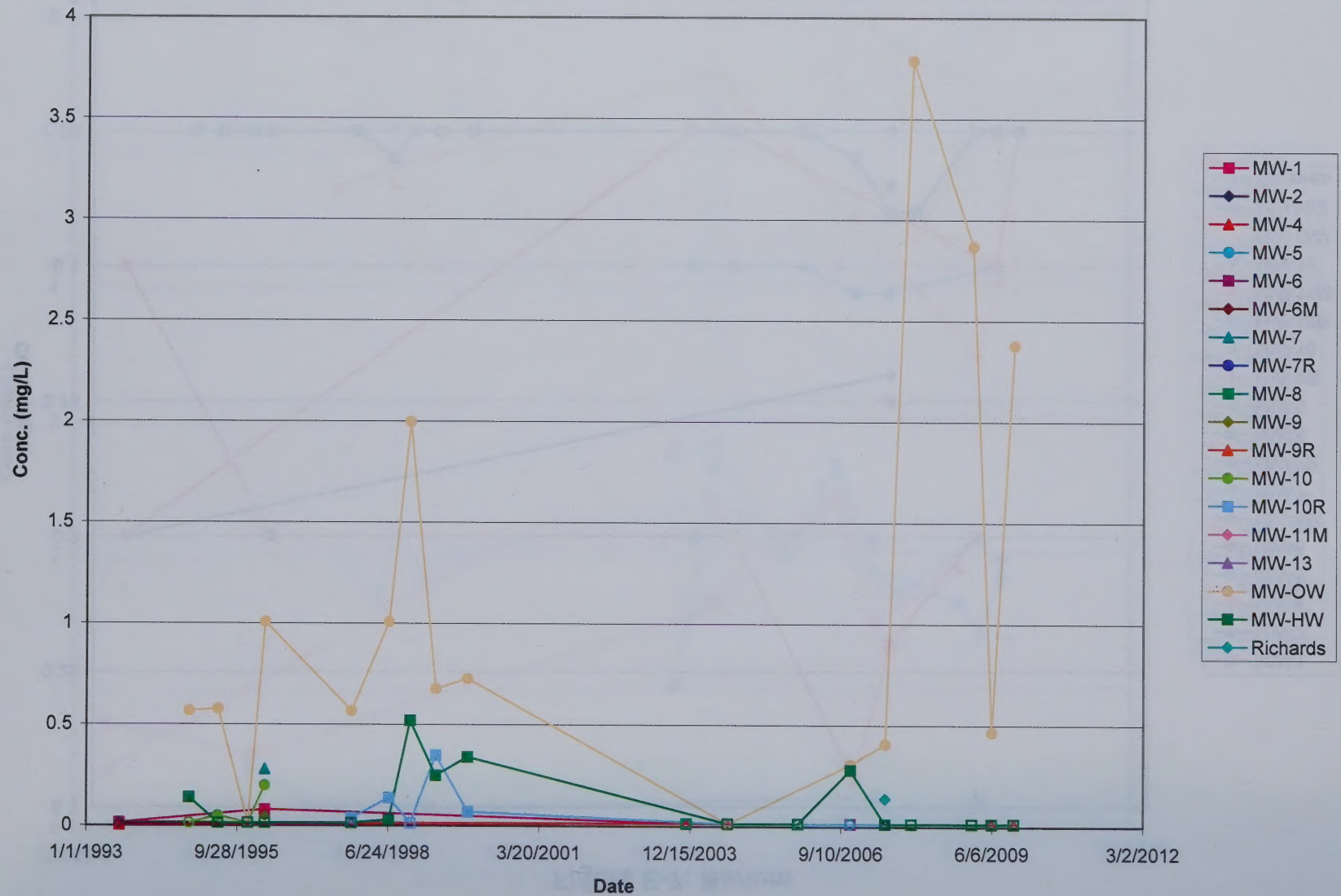


Figure E-9: Selenium

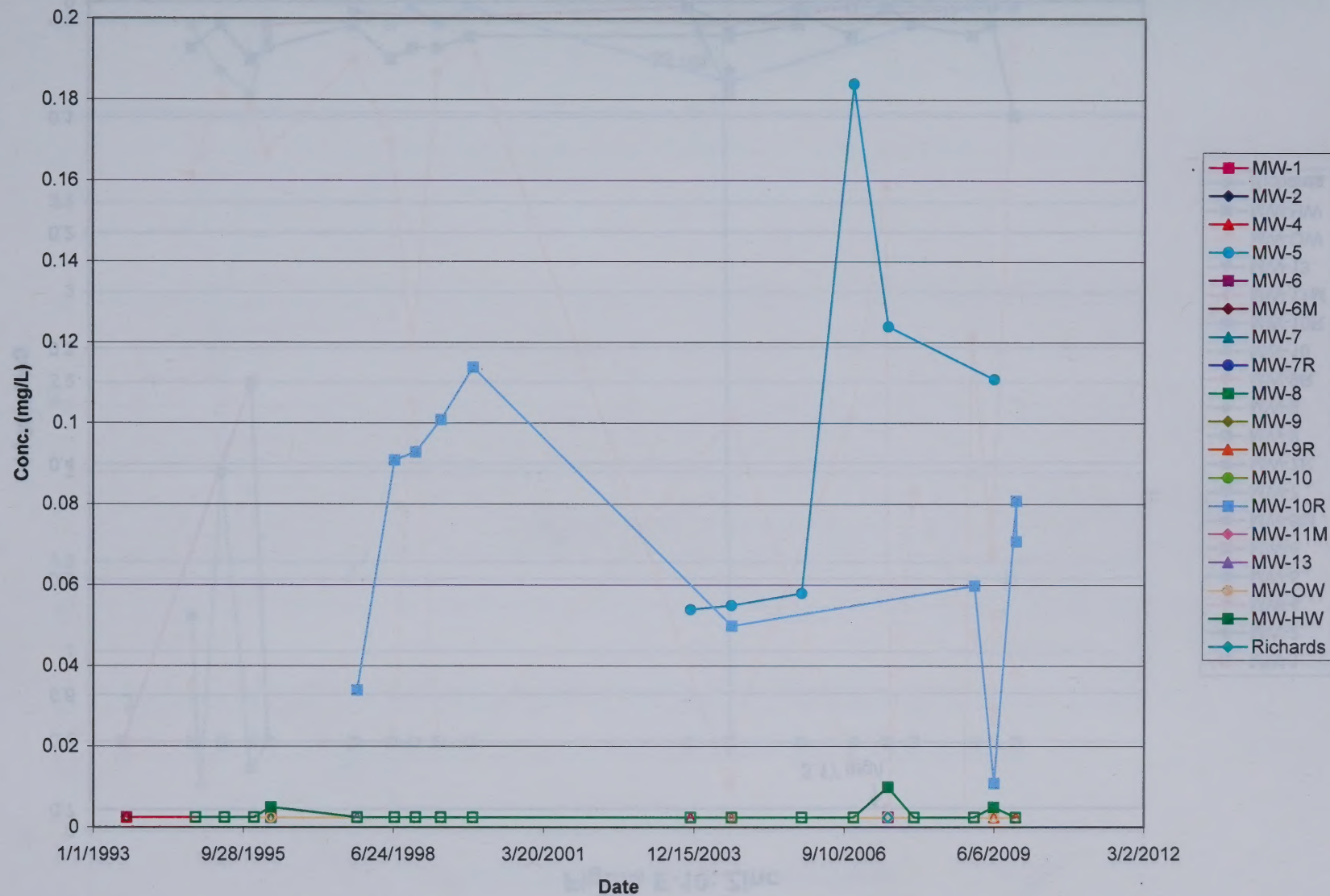


Figure E-10: Zinc

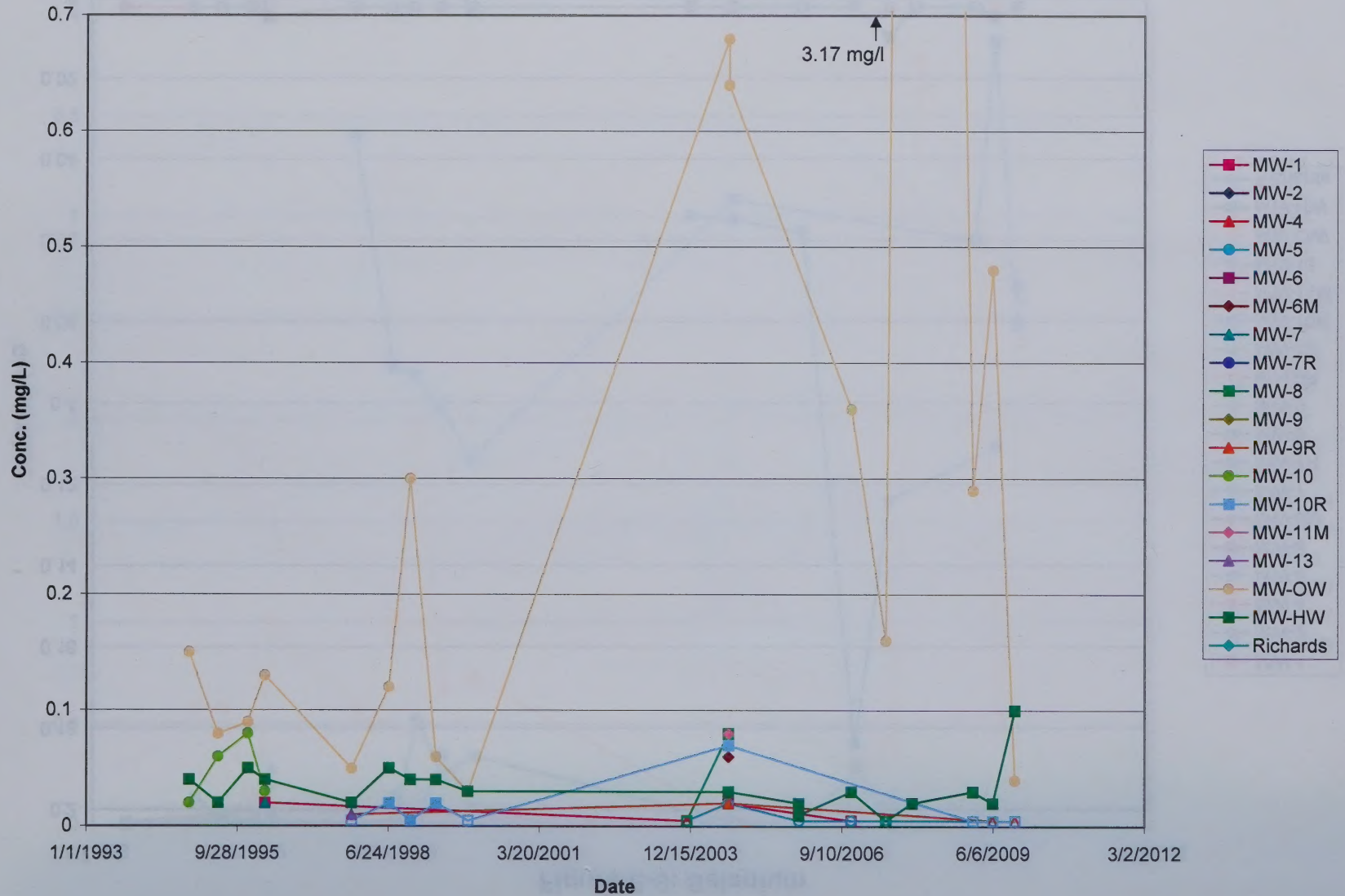
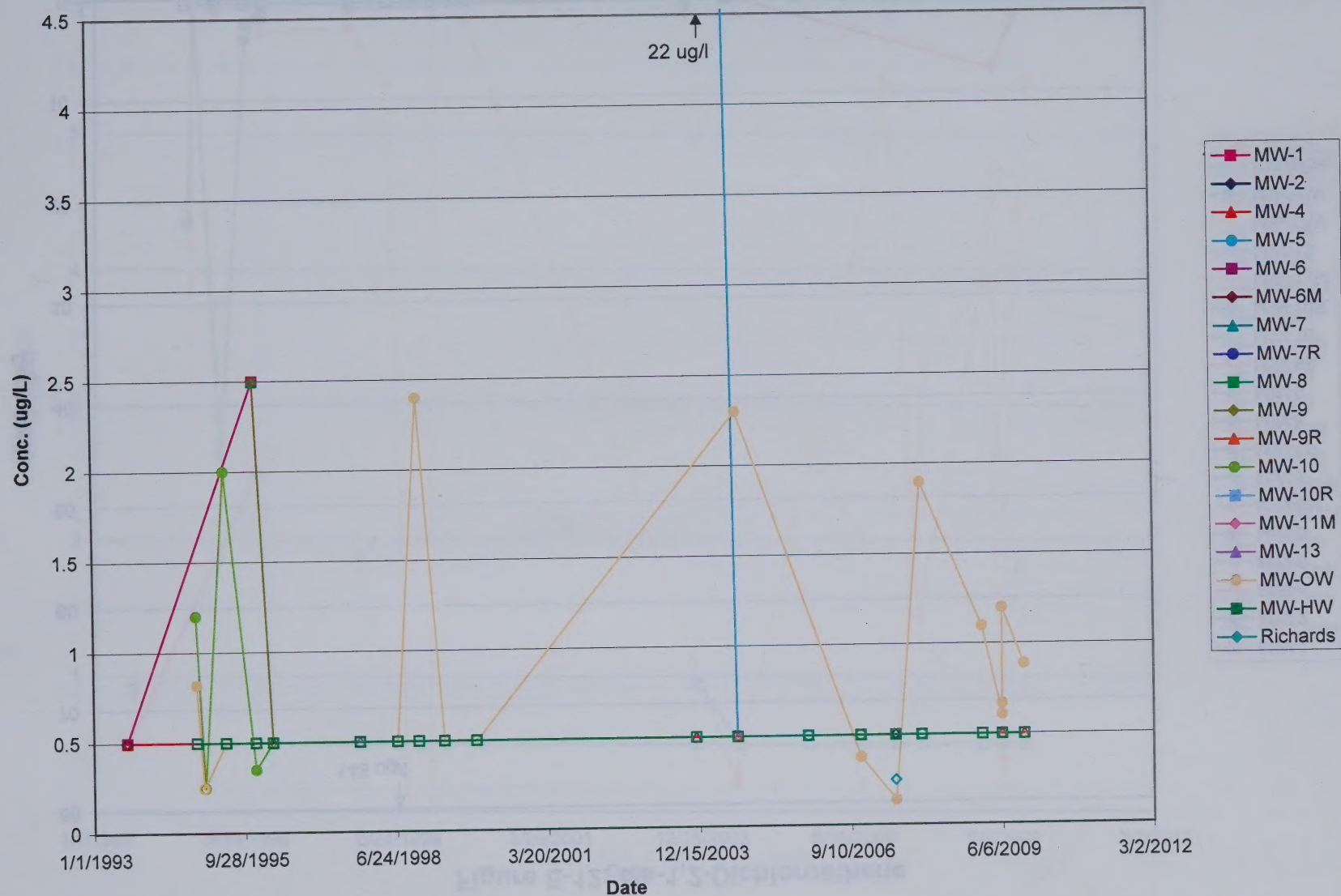


Figure E-11: Benzene



1

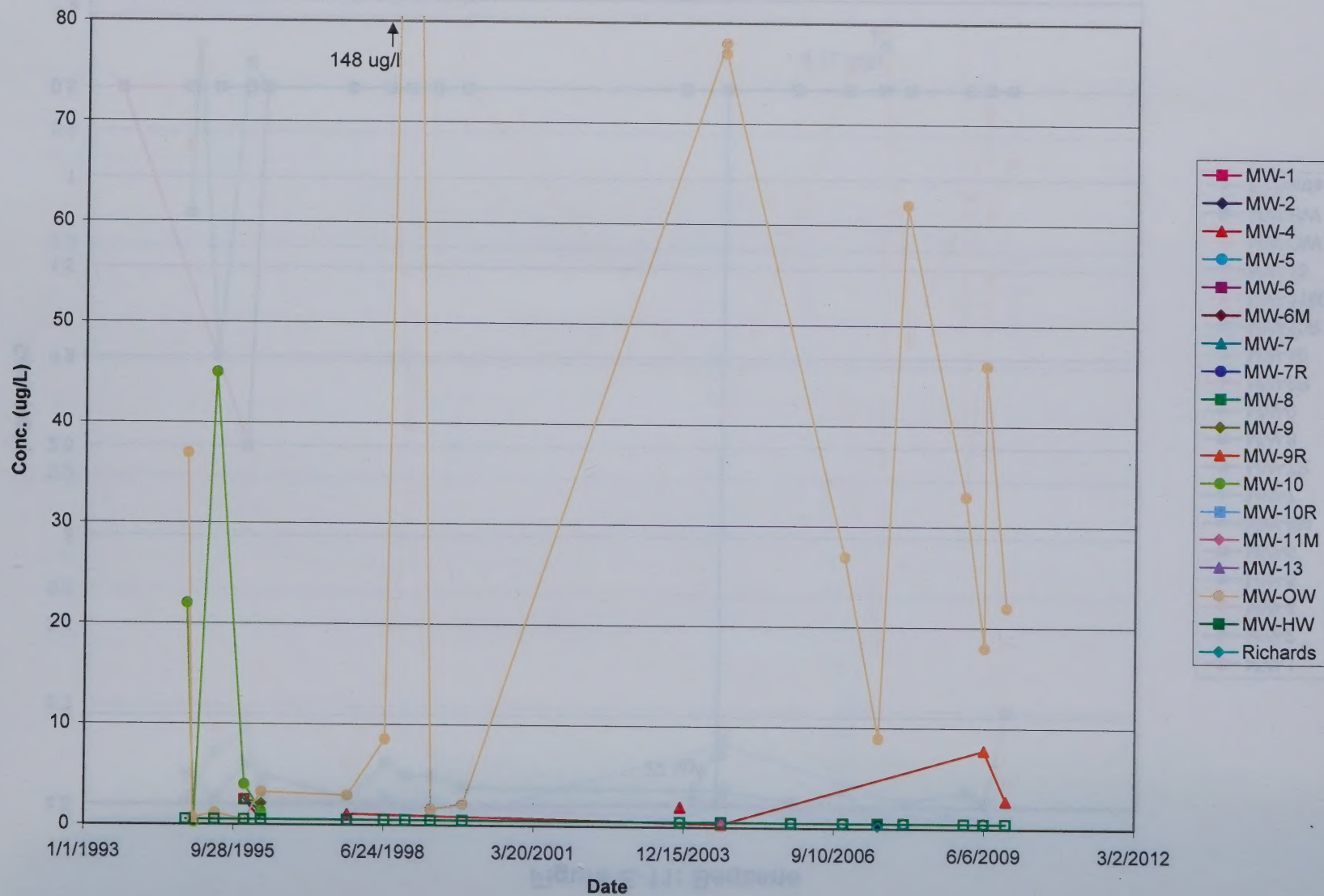


Figure E-13: Ethyl benzene

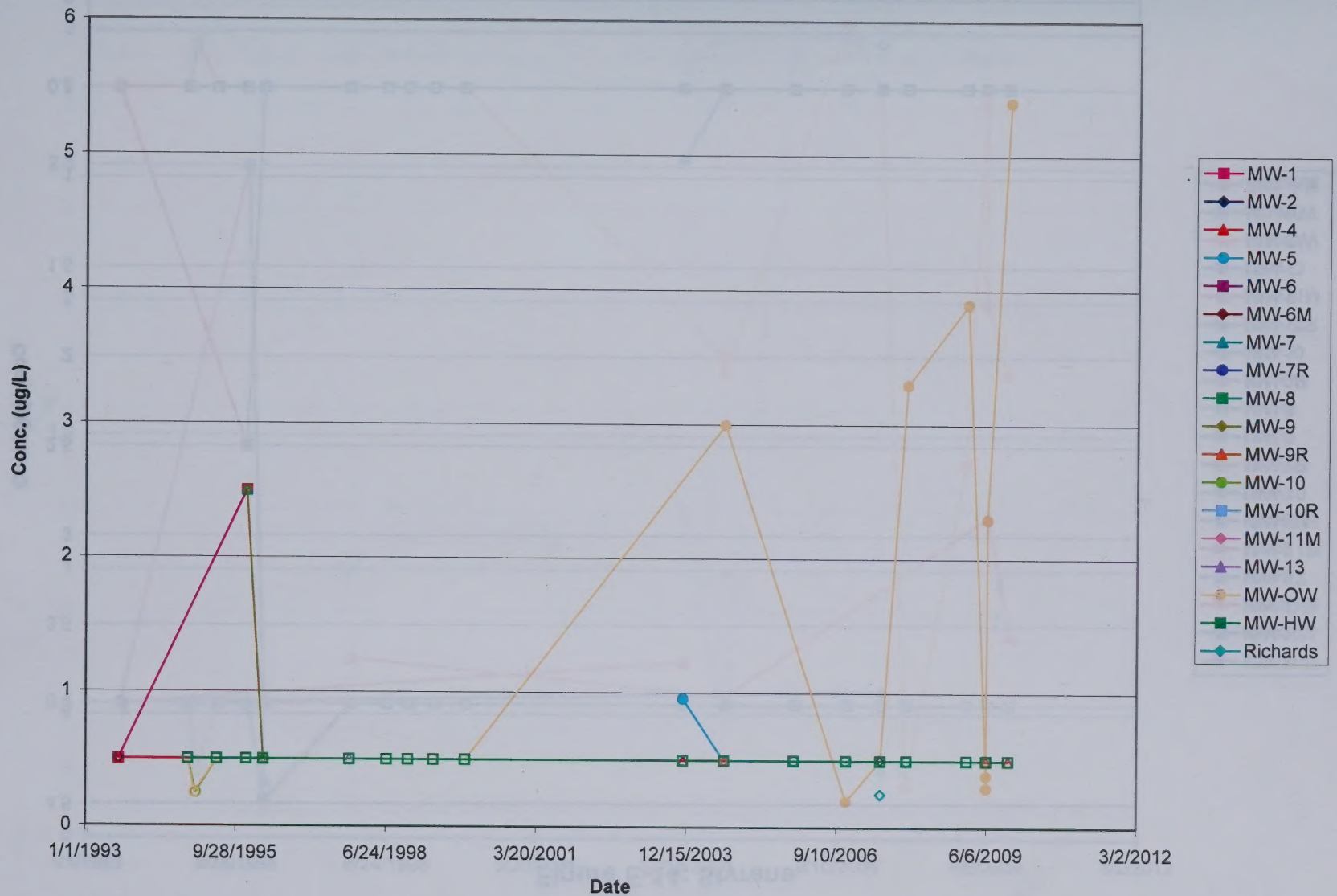
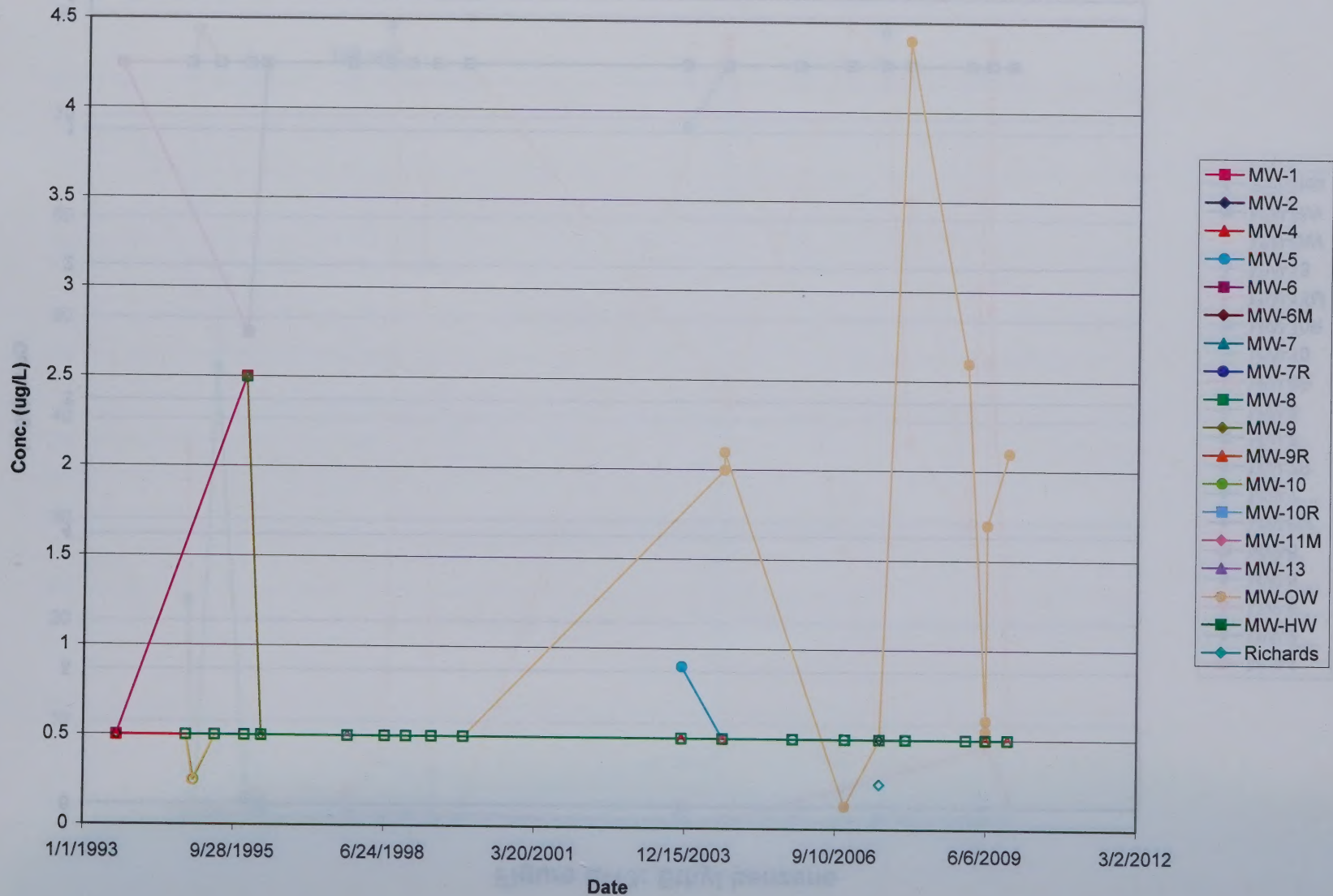


Figure E-14: Styrene



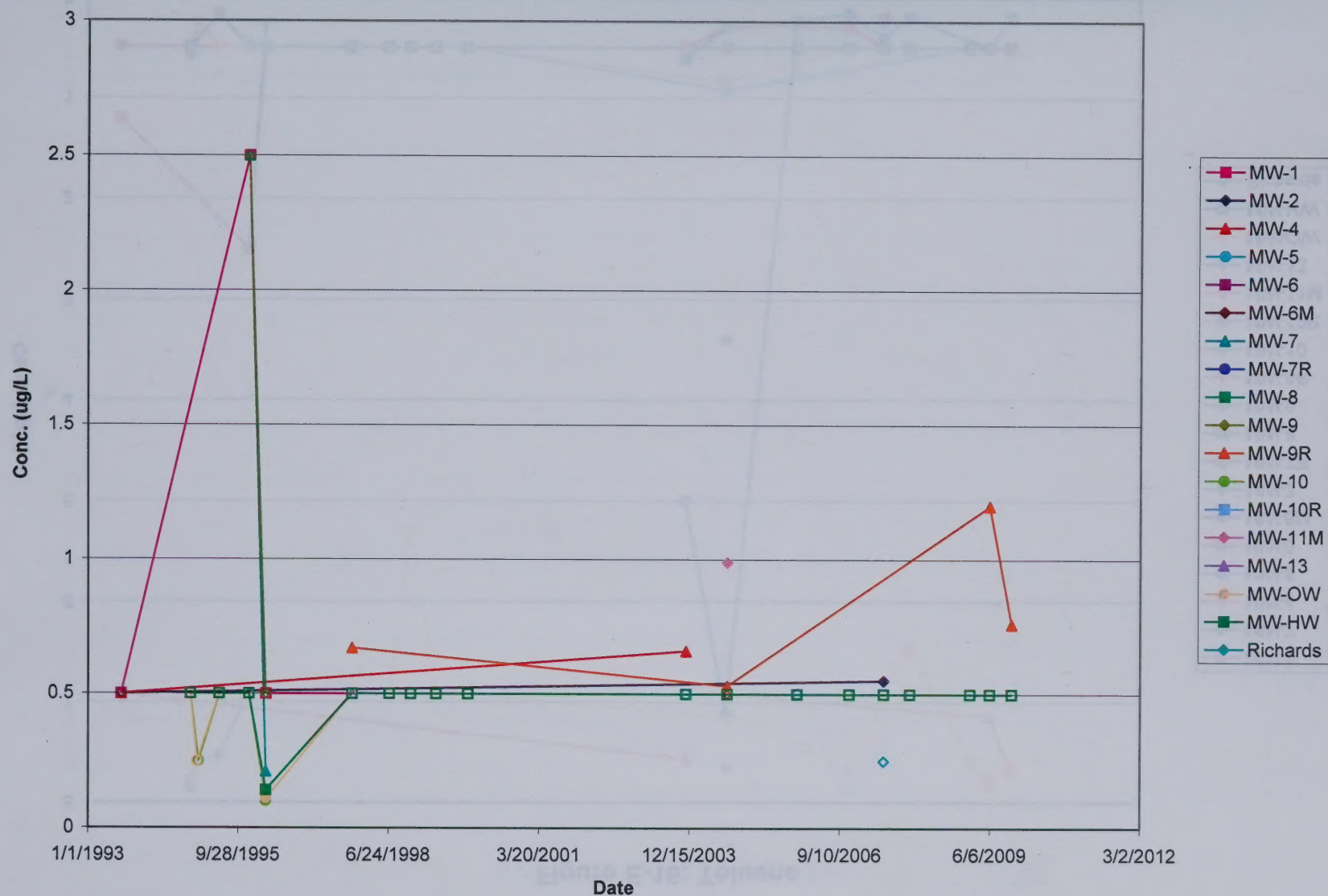


Figure E-16: Toluene

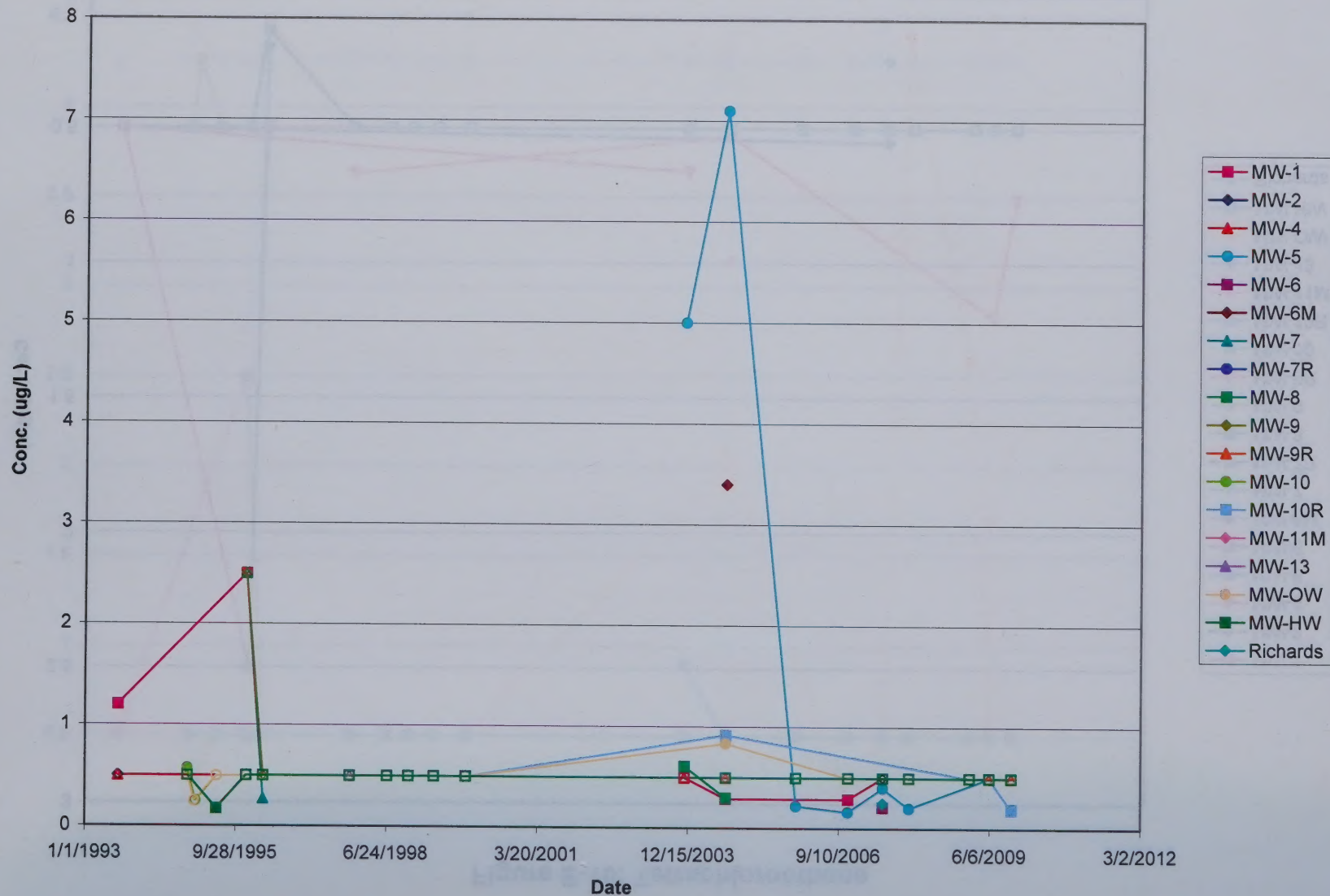
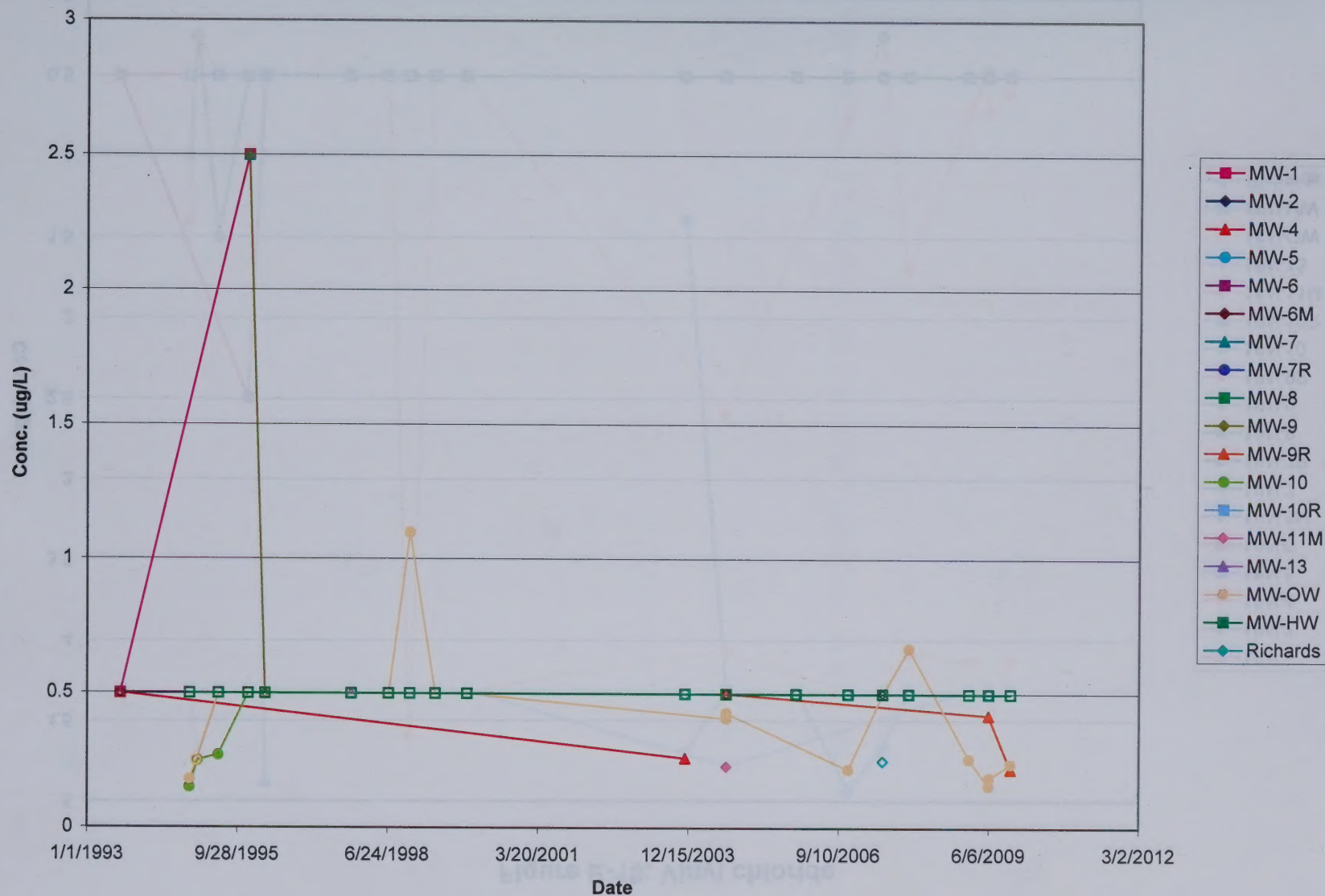


Figure E-17: Trichloroethene



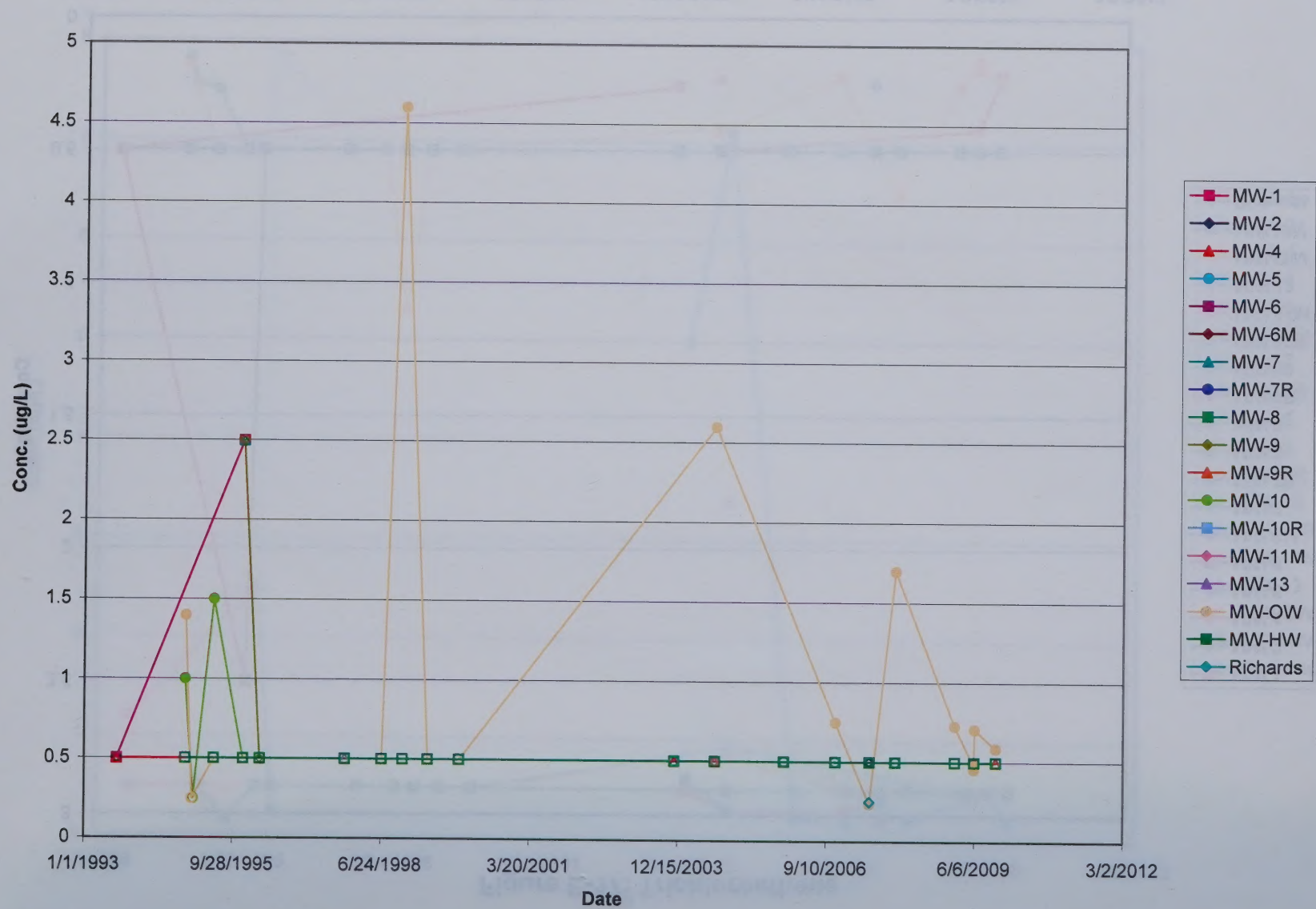


Figure E-19: Total Xylenes



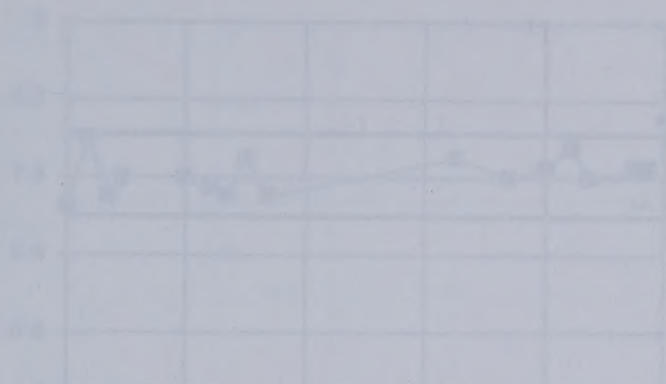
Figure F-1: Background Analysis for pH in MW-HW

10/1/04 11/1/07 11/1/09 11/1/12 11/1/15 11/1/18 11/1/21

Waste Load

Prediction Limit

Model Parameters



Model Parameters

Model Parameters

Line = 0.000

Line = 0.000

APPENDIX F: RESULTS OF STATISTICAL ANALYSES

10/1/04 11/1/07 11/1/09 11/1/12 11/1/15 11/1/18 11/1/21

Background Data Summary: Mean = 7.02, Std. Dev. = 0.194, n = 18. Normality test: Shapiro-Wilk Statistic = 0.95, p-value = 0.999, Lilliefors = 0.007. Histogram p-value = 0.02. Data is approximately normally distributed.

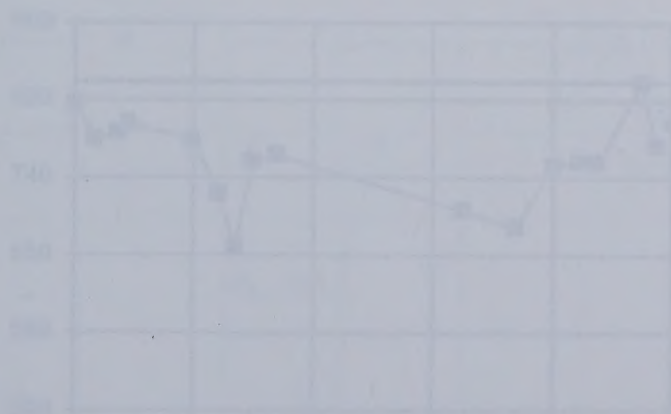
Figure F-2: Background Analysis for Conductivity in MW-HW

10/1/04 11/1/07 11/1/09 11/1/12 11/1/15 11/1/18 11/1/21

Waste Load

Prediction Limit

Model Parameters



APPENDIX F: RESULTS OF STATISTICAL ANALYSES

Figure F-1: Background Analysis for pH in MW-HW

v.9.0.31 For regulatory purposes only. EPA

Exceeds Limits

Prediction Limit

Intrawell Parametric

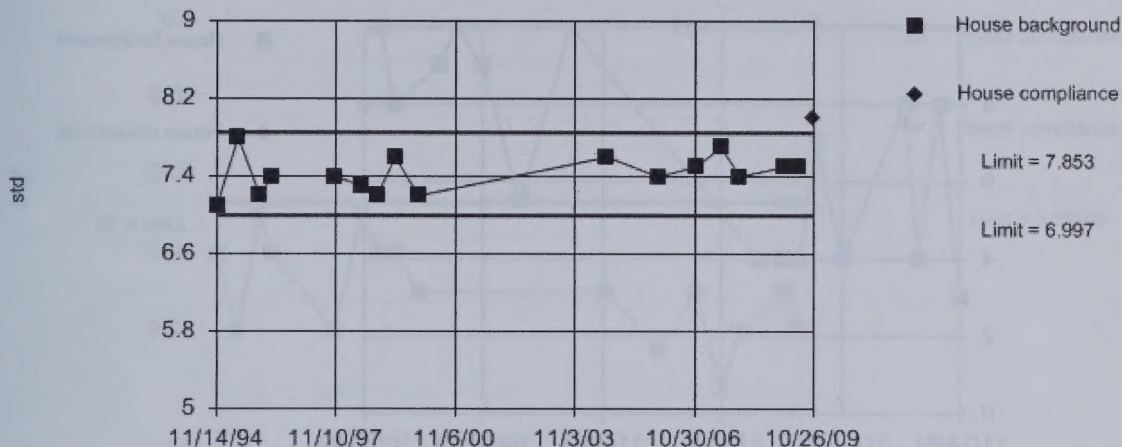


Figure F-3: Background Analysis for Chloride in MW-HW

v.9.0.31 For regulatory purposes only, EPA

Within Limit

Prediction Limit

Intrawell Non-parametric

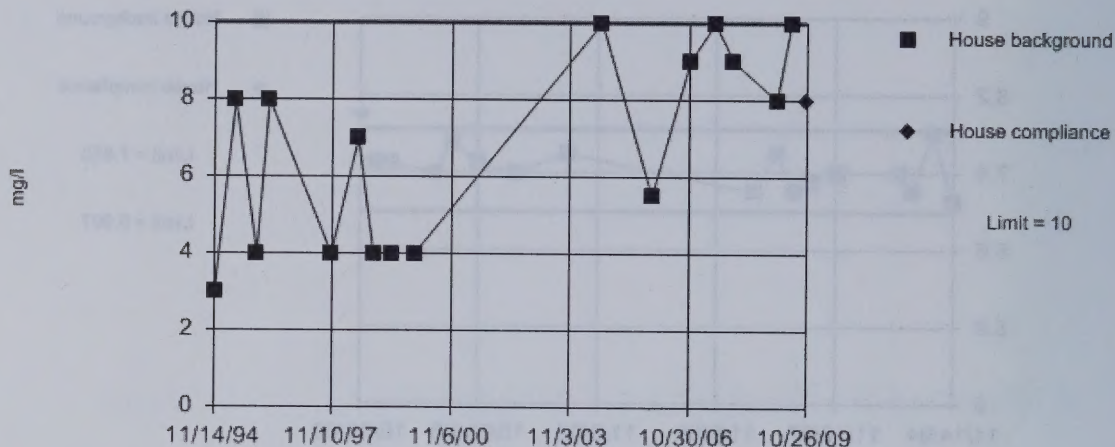


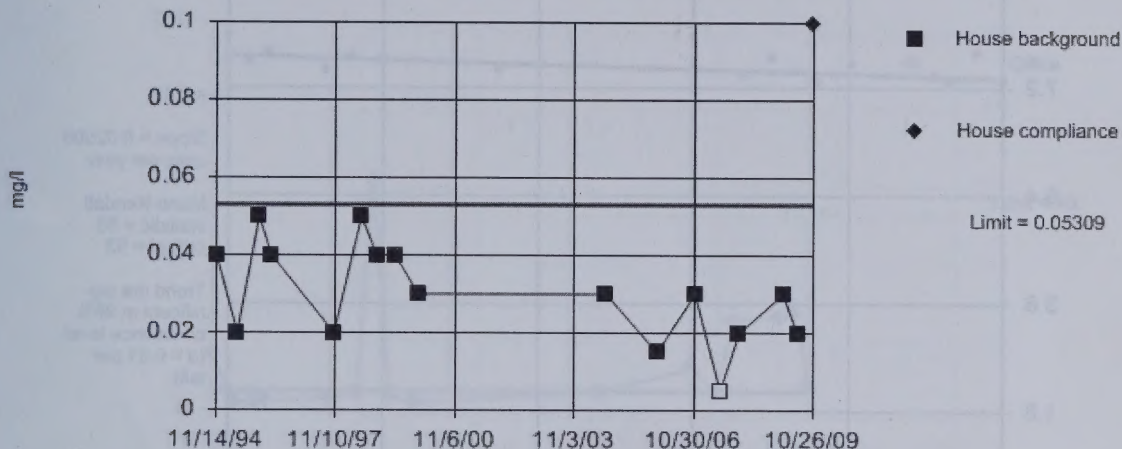
Figure F-5: Background Analysis for Zinc in MW-HW

v.9.0.31 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.03, Std. Dev.=0.01278, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.944, critical = 0.887. Report alpha = 0.05. Most recent point compared to limit.

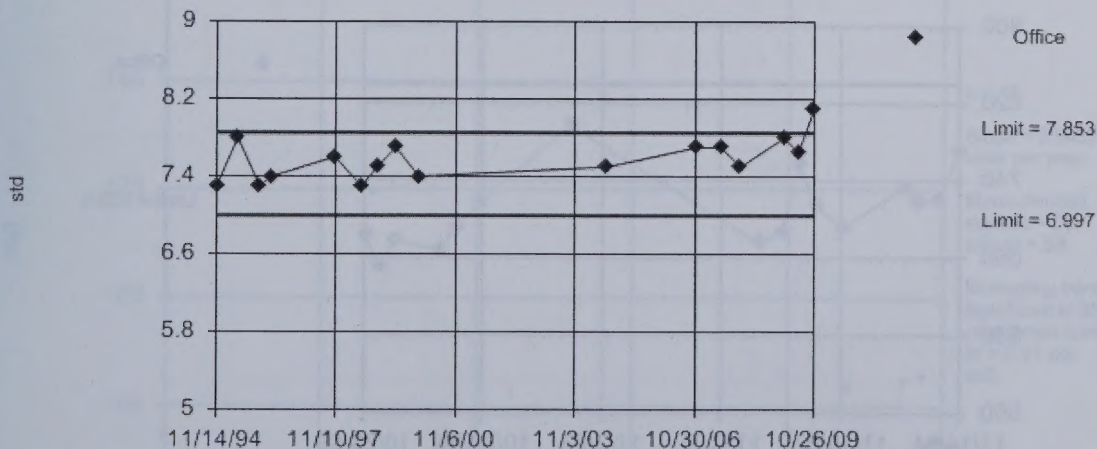
Figure F-6: Prediction Limit Analysis for pH in MW-OW

v.9.0.31 For regulatory purposes only. EPA

Exceeds Limits: Office

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.425, Std. Dev.=0.1949, n=16. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9652, critical = 0.887. Report alpha = 0.05. Most recent point compared to limit.

Figure F-7: Trend Analysis for pH in MW-OW

v.9.0.31 For regulatory purposes only. EPA

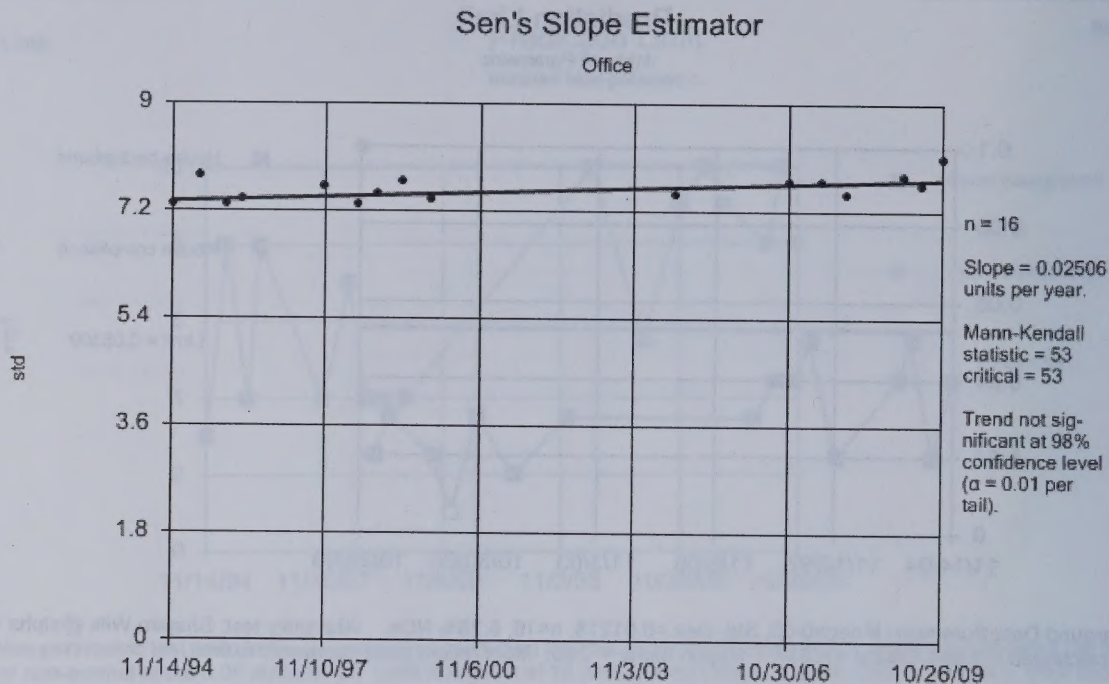


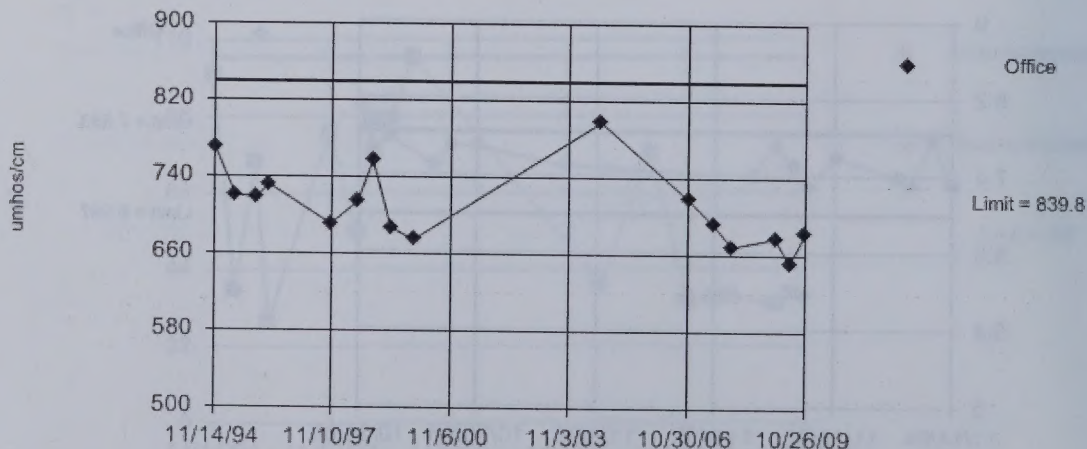
Figure F-8: Prediction Limit Analysis for Conductivity in MW-OW

v.9.0.31 For regulatory purposes only. EPA

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=760.5, Std. Dev.=44.18, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9586, critical = 0.892. Report alpha = 0.05. Most recent point compared to limit.

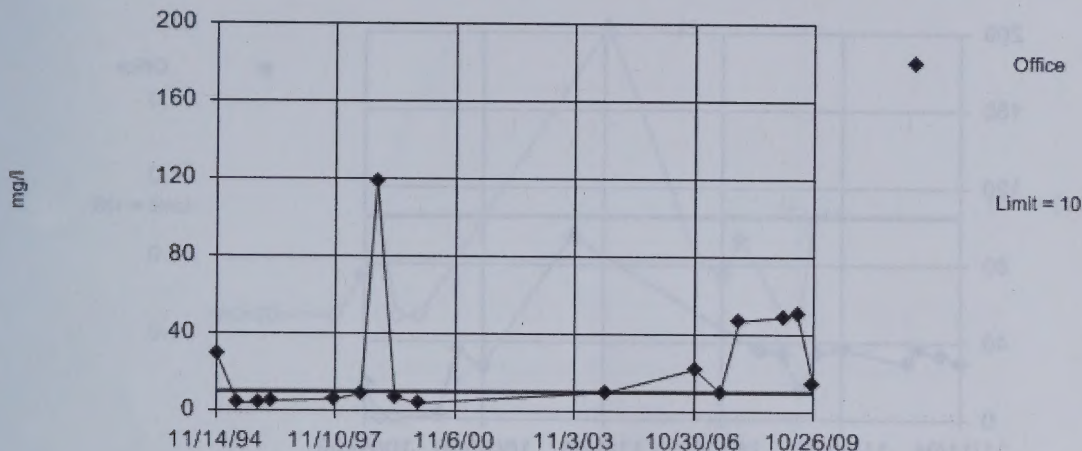
Figure F-9: Prediction Limit Analysis for Chloride in MW-OW

v.9.0.31 For regulatory purposes only, EPA

Exceeds Limit: Office

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 17 background values Report alpha = 0.05556. Most recent point compared to limit.

Figure F-10: Trend Analysis for Chloride in MW-OW

v.9.0.31 For regulatory purposes only, EPA

Sen's Slope Estimator

Office

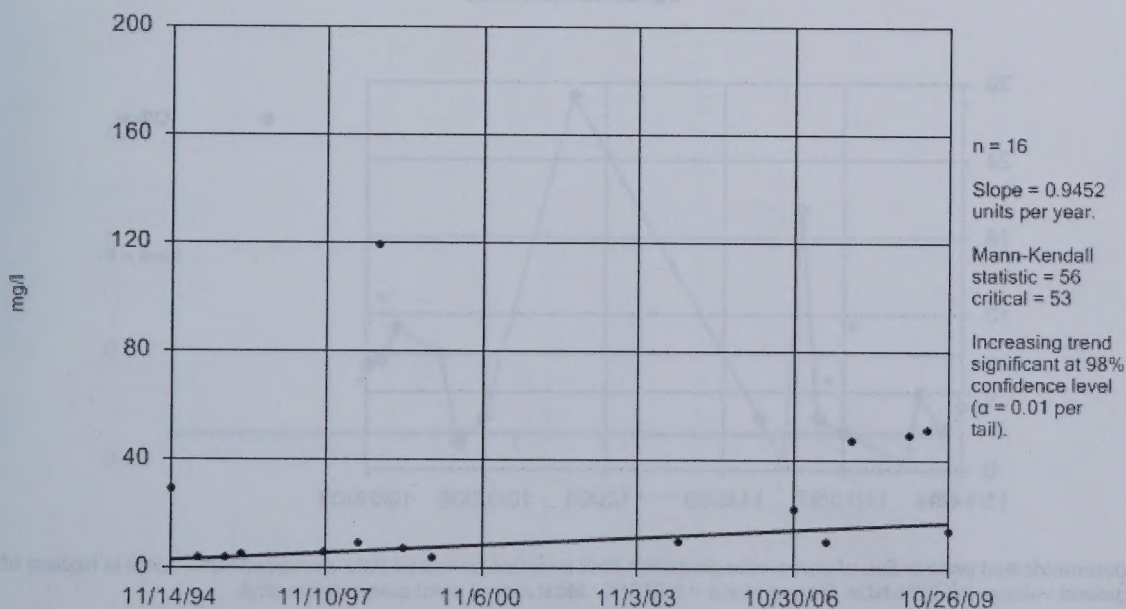


Figure 7-3: Prevalence

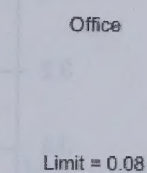
Interwell Non-parametric

Limit = 105

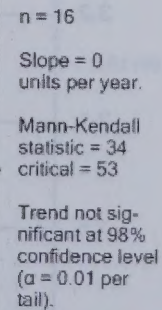
Interwell Non-parametric



Interwell Non-parametric



Office



ed 50%. Limit is highest of 17
nit.

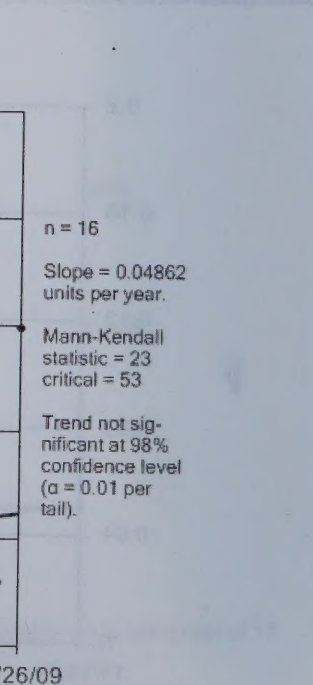


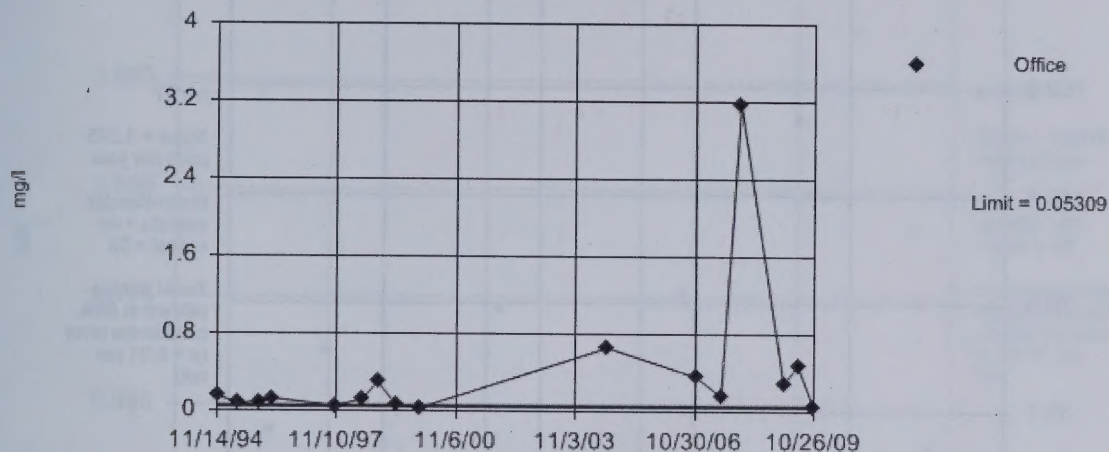
Figure F-17: Prediction Limit Analysis for Zinc in MW-OW

v 9.0.31 For regulatory purposes only. EPA

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.03, Std. Dev.=0.01278, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.944, critical = 0.887. Report alpha = 0.05. Most recent point compared to limit.

Figure F-18: Trend Analysis for Benzene in MW-OW

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Hollow symbols indicate censored values.

Sen's Slope Estimator

Office

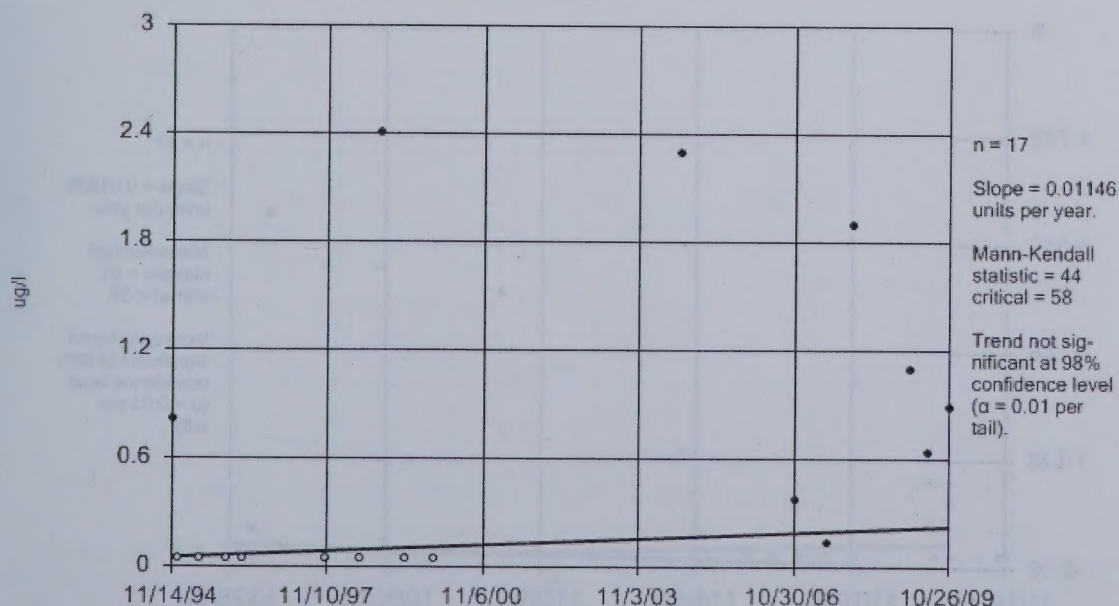


Figure F-19: Trend Analysis for cis-1,2-Dichloroethene in MW-OW

v.9.0.31 For regulatory purposes only, EPA
Hollow symbols indicate censored values.

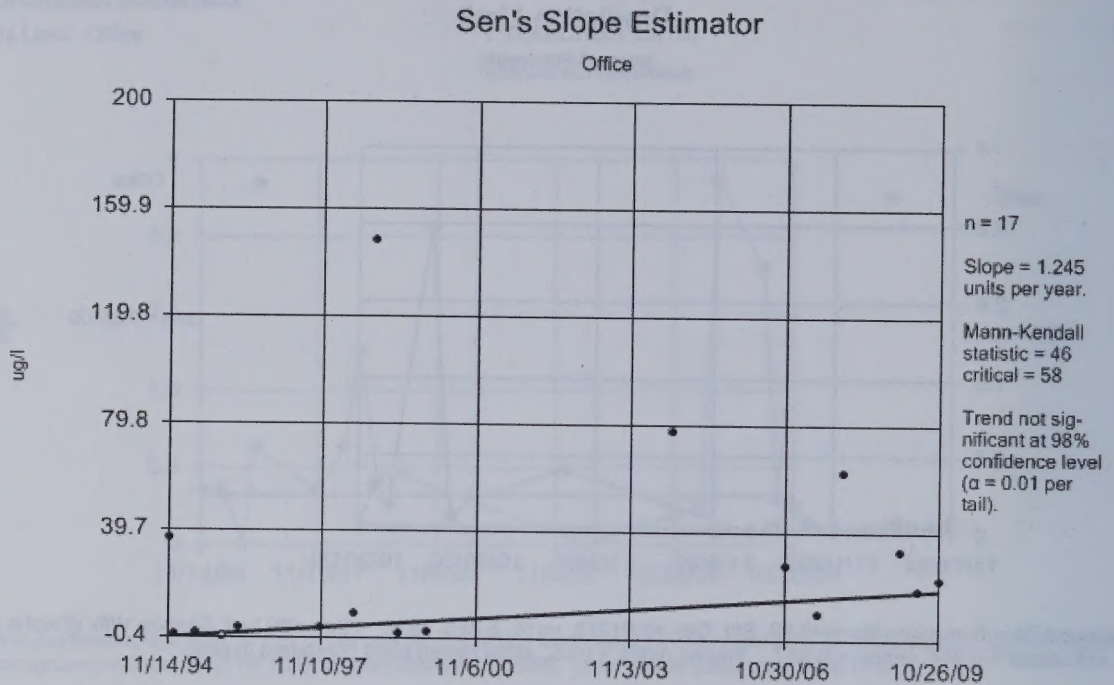


Figure F-20: Trend Analysis for Ethyl benzene in MW-OW

v.9.0.31 For regulatory purposes only, EPA
Hollow symbols indicate censored values.

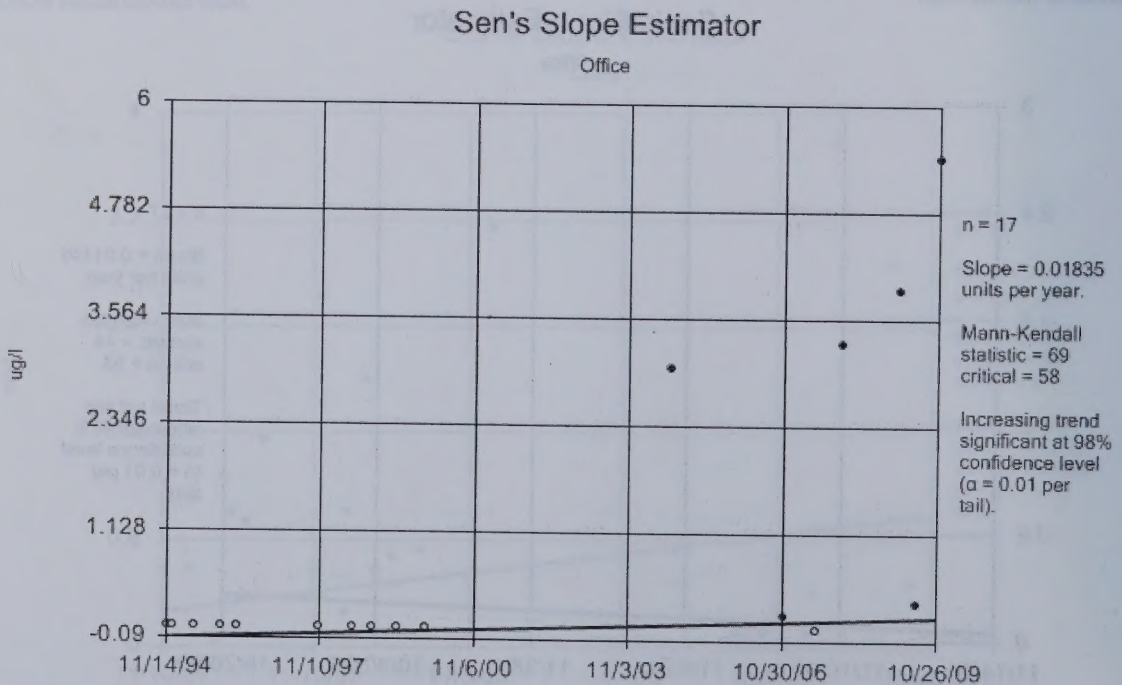


Figure F-21: Trend Analysis for Styrene in MW-OW

v.9.0.31 For regulatory purposes only, EPA
Hollow symbols indicate censored values.

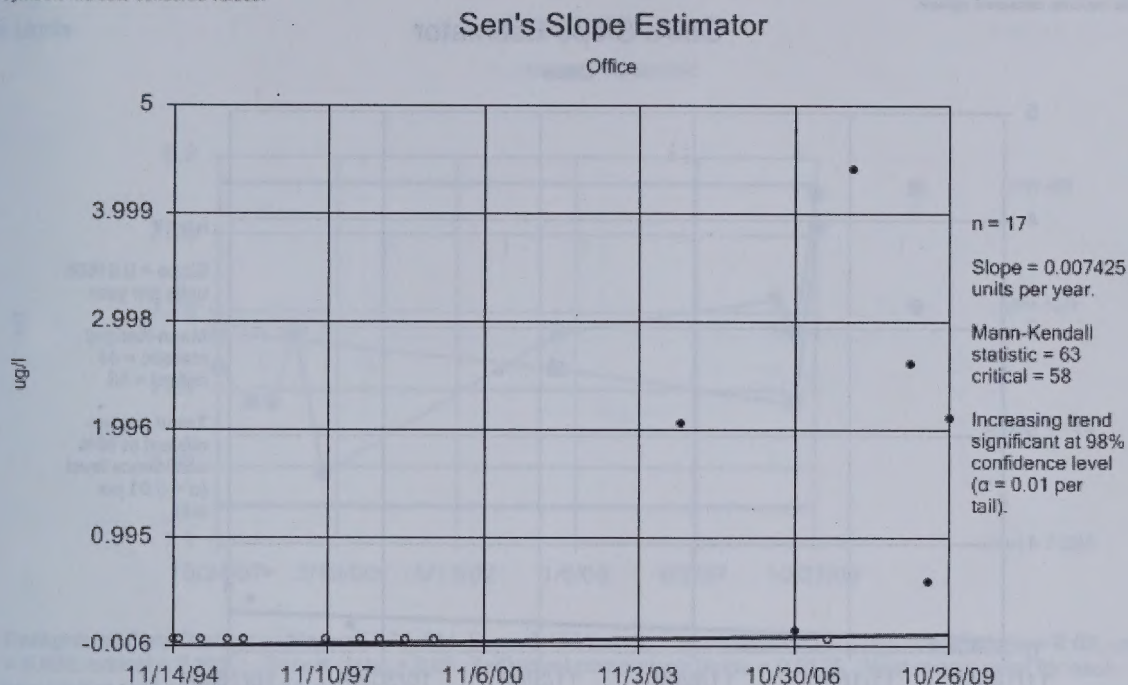


Figure F-22: Trend Analysis for Trichloroethene in MW-OW

v.9.0.31 For regulatory purposes only, EPA
Hollow symbols indicate censored values.

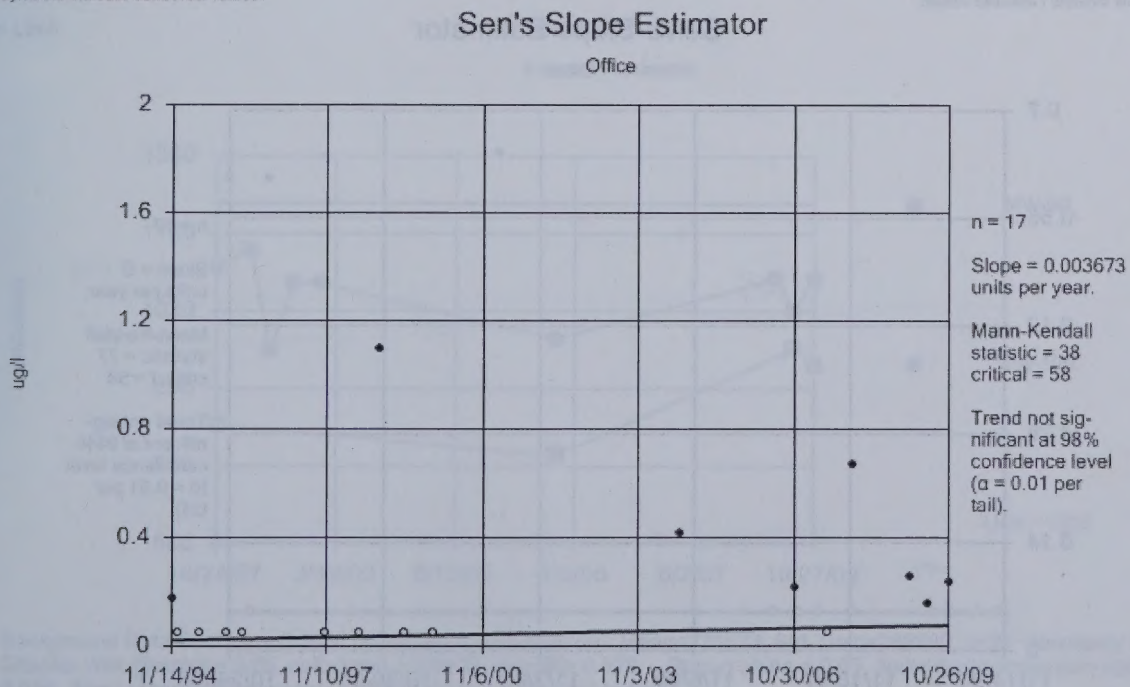


Figure F-23: Trend Analysis for Vinyl chloride in MW-OW

v.9.0.31 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

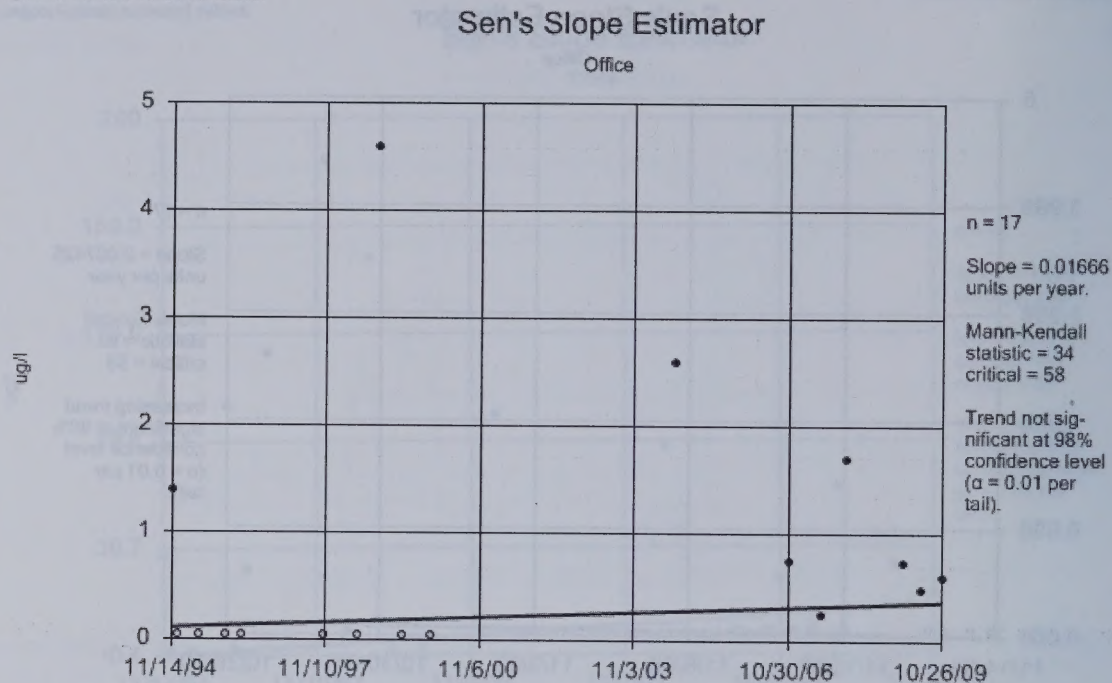
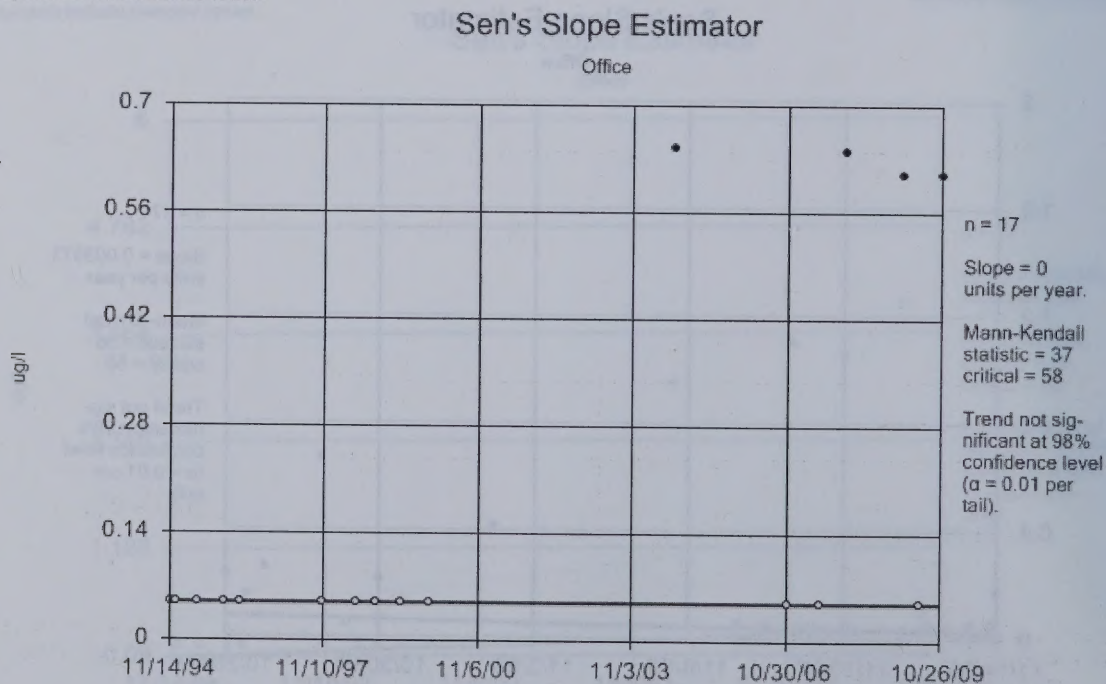
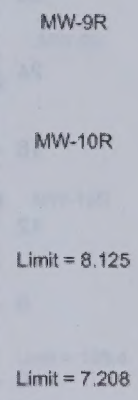


Figure F-24: Trend Analysis for Total Xylenes in MW-OW

v.9.0.31 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

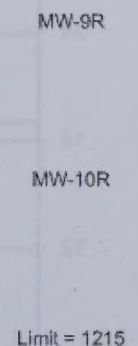


Interwell Parametric



Send all correspondence to: *Journal of Management Inquiry*, 10.1177/1056492603251291, Sage Publications, 2455 Teller Road, Thousand Oaks, CA 91320.

Interwell Parametric



0, n=9. Normality test:
dual comparison alpha =

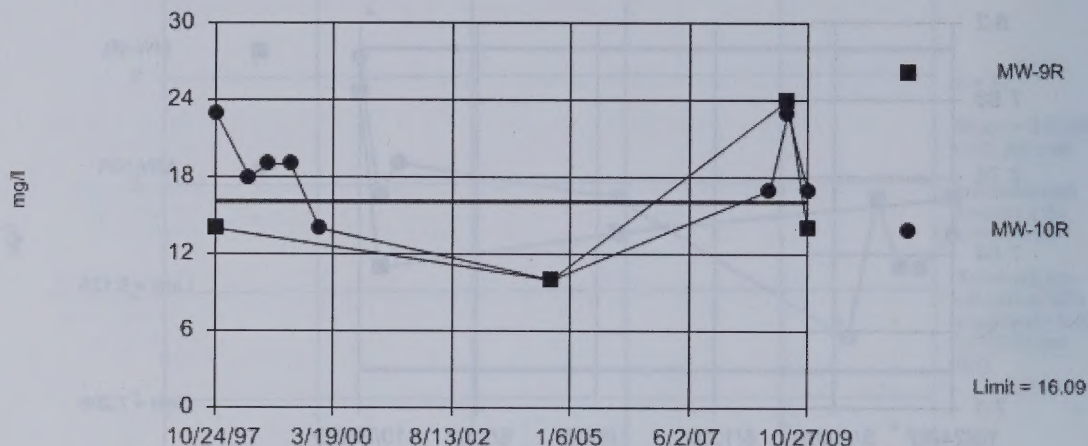
Figure F-27: Prediction Limit Analysis for Chloride in Shallow Wells

v.9.0.31 For regulatory purposes only, EPA

Exceeds Limit: MW-10R

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.778, Std. Dev.=3.42, n=9. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9049, critical = 0.829. Report alpha = 0.05. Individual comparison alpha = 0.025. Most recent point for each compliance well compared to limit.

Figure F-28: Trend Analysis for Chloride in MW-10R

v.9.0.31 For regulatory purposes only, EPA

Sen's Slope Estimator

MW-10R

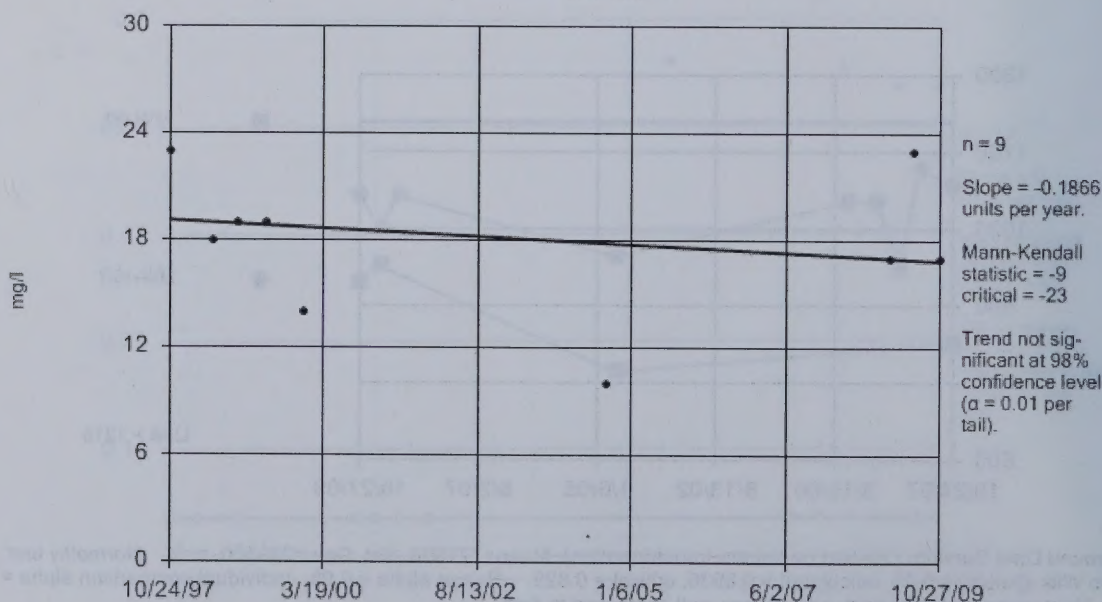


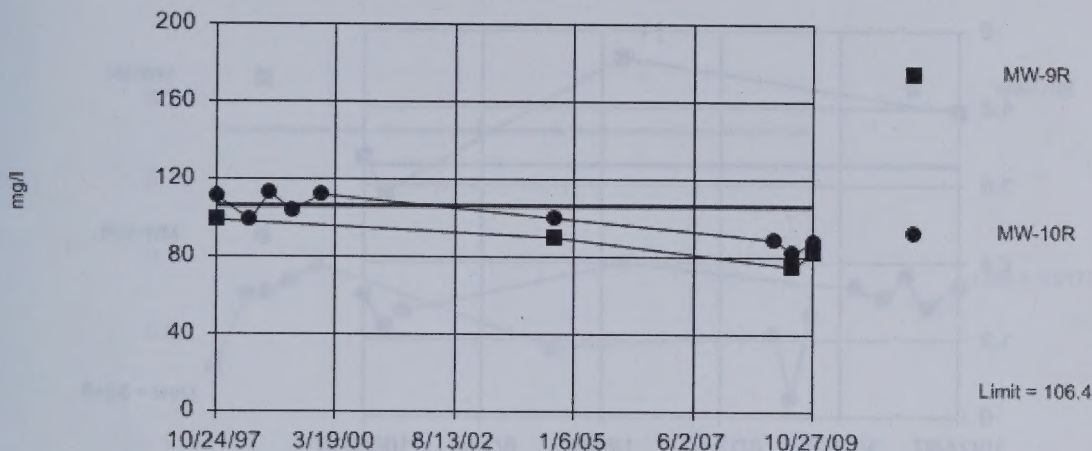
Figure F-29: Prediction Limit Analysis for Sulfate in Shallow Wells

v.9.0.31 For regulatory purposes only. EPA

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=54.11, Std. Dev.=21.5, n=9. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9019, critical = 0.829. Report alpha = 0.05. Individual comparison alpha = 0.025. Most recent point for each compliance well compared to limit.

Figure F-30: Prediction Limit Analysis for COD in Shallow Wells

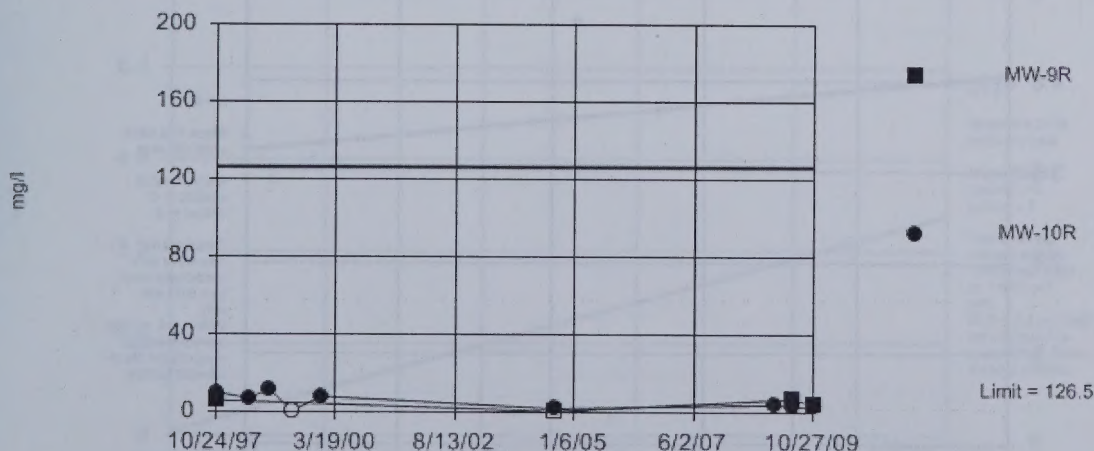
v.9.0.31 For regulatory purposes only. EPA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=2.248, Std. Dev.=1.14, n=9. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8333, critical = 0.829. Report alpha = 0.05. Individual comparison alpha = 0.025. Most recent point for each compliance well compared to limit.

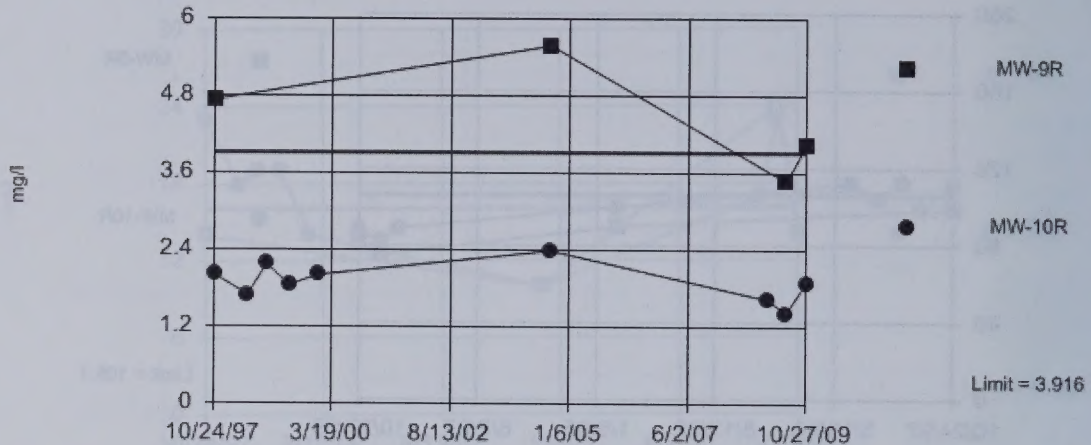
Figure F-31: Prediction Limit Analysis for Nitrate/Nitrite in Shallow Wells

v.9.0.31 For regulatory purposes only. EPA

Exceeds Limit: MW-9R

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=1.969, Std. Dev.=0.8011, n=9. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8568, critical = 0.829. Report alpha = 0.05. Individual comparison alpha = 0.025. Most recent point for each compliance well compared to limit.

Figure F-32: Trend Analysis for Nitrate/Nitrite in MW-9R

v.9.0.31 For regulatory purposes only. EPA

Sen's Slope Estimator

MW-9R

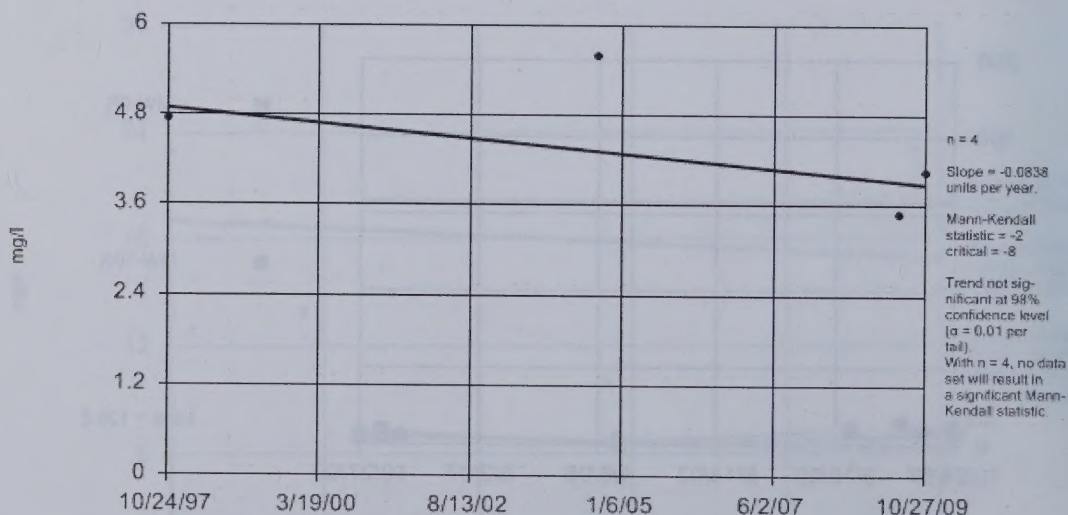


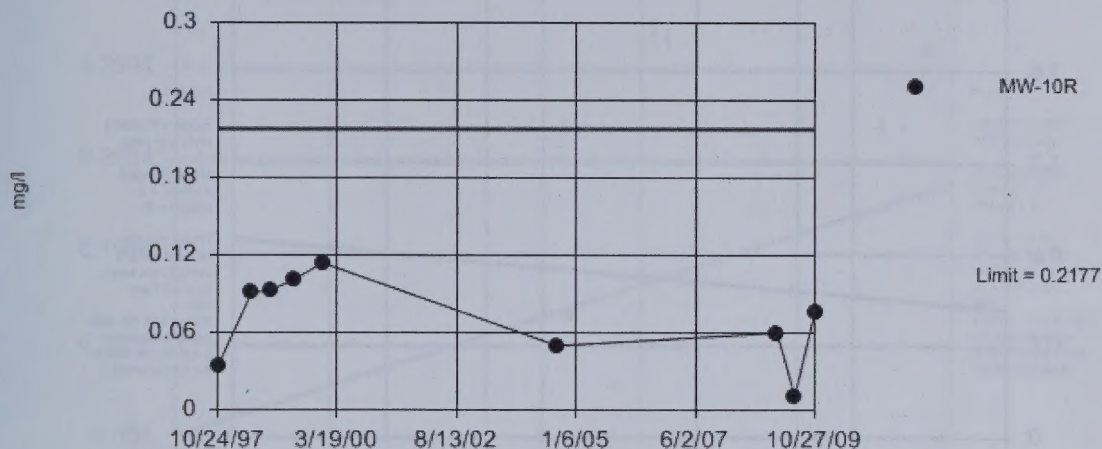
Figure F-33: Prediction Limit Analysis for Selenium in MW-10R

v.9.0.31 For regulatory purposes only, EPA

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (after Cohen's Adjustment): Mean=0.06344, Std. Dev.=0.07679, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.922, critical = 0.818. Report alpha = 0.05. Most recent point compared to limit.

Figure F-34: Trend Analysis for cis-1,2-Dichloroethene in MW-9R

v.9.0.31 For regulatory purposes only, EPA

Sen's Slope Estimator

MW-9R

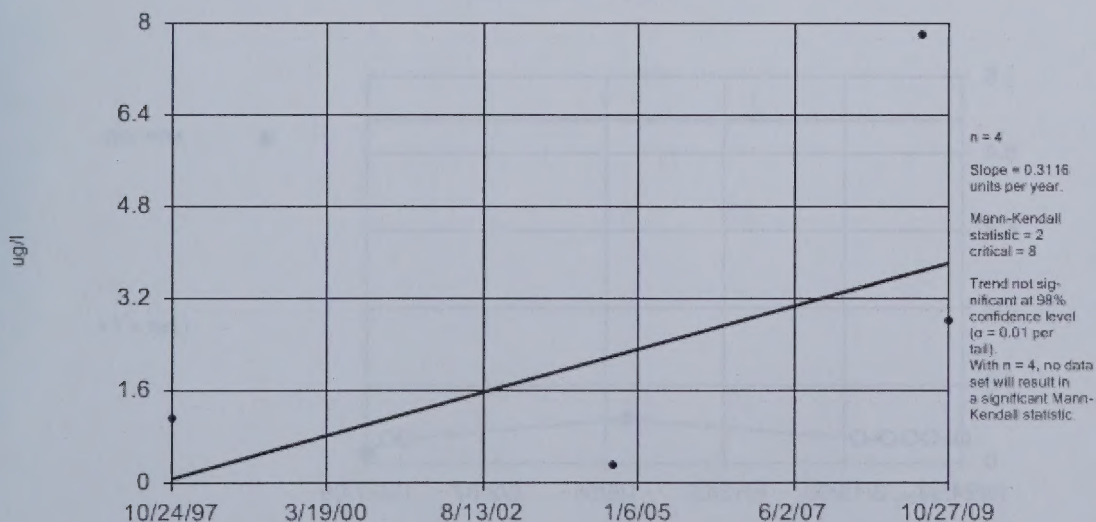


Figure F-35: Trend Analysis for Tetrachloroethene in MW-9R

v.9.0.31 For regulatory purposes only. EPA

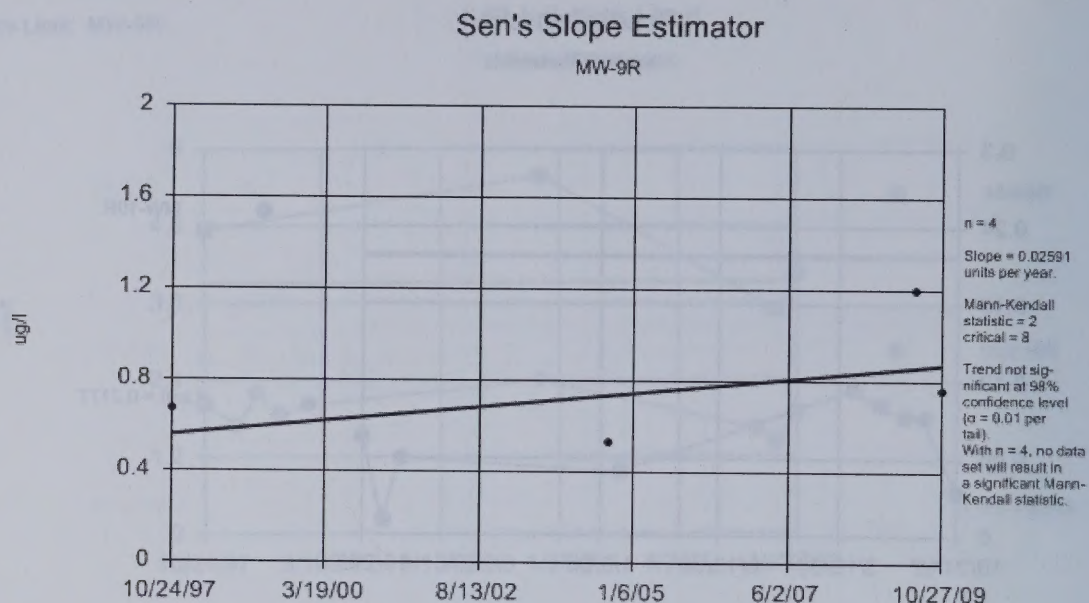


Figure F-36: Prediction Limit Analysis for Toluene in MW-10R

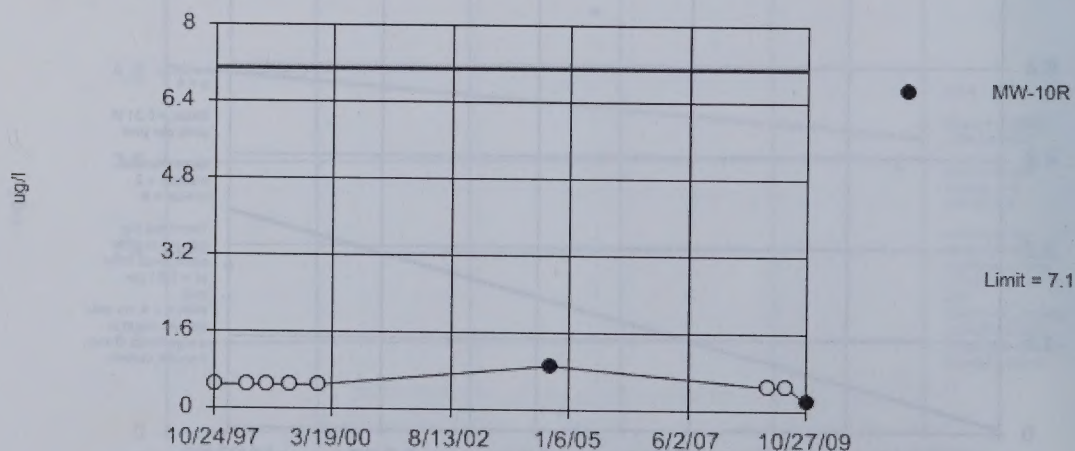
v.9.0.31 For regulatory purposes only. EPA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 9 background values. 11.11% NDs Report alpha = 0.1. Most recent point compared to limit.

Figure F-37: Trend Analysis for Trichloroethene in MW-9R

v.9.0.31 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

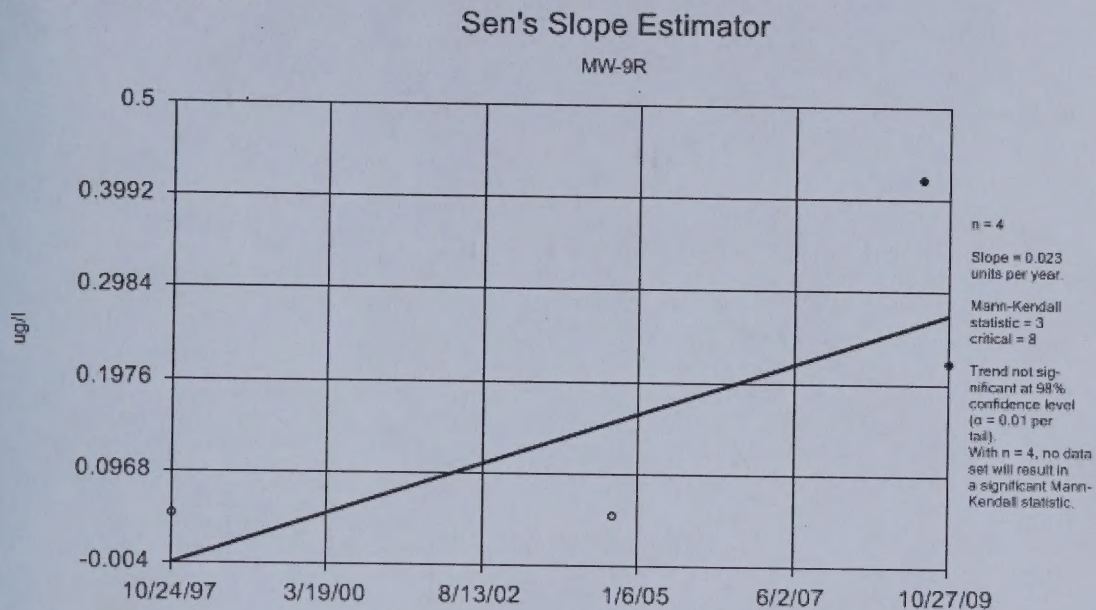


Figure F-35: Trend Analysis for Toluene in MW-9R

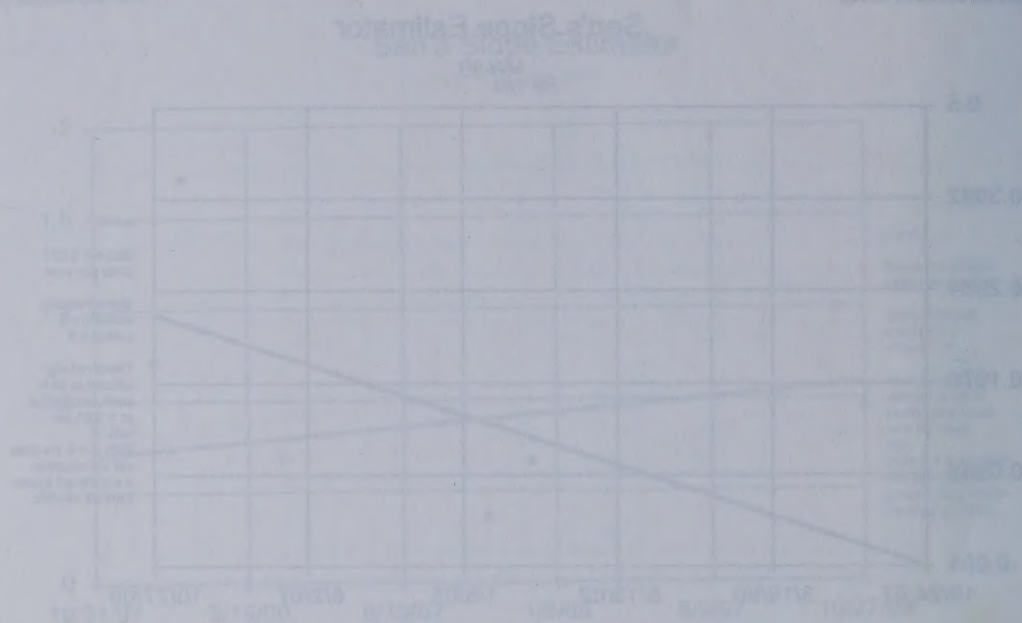


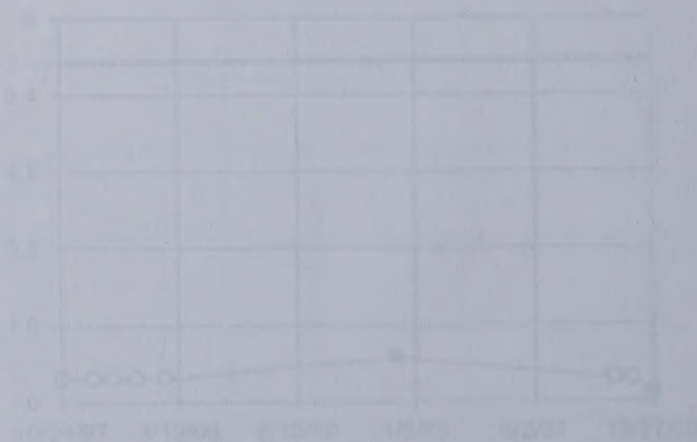
Figure F-36: Prediction Unit Analysis for Toluene in MW-10R

10/24/97 to 11/27/97
Prediction Unit Analysis for Toluene in MW-10R

Model Unit

Prediction Unit

Model Unit



Model Unit and Prediction Unit Analysis for Toluene in MW-10R. The graph shows a decreasing trend line starting at approximately 1.5 mg/L and ending at approximately 0.5 mg/L. Data points are plotted at various dates, with some points showing a slight increase in concentration towards the end of the period.

Closed

County Fergus

Facility & # Master M #302

Closure

Landfarm

Finan Assur

Liner

GW Corr Meas

Methane

GW Monitoring

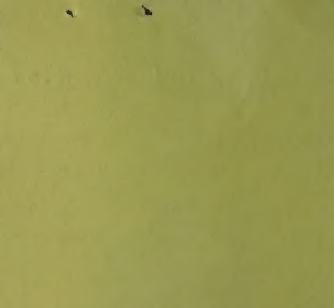
O & M

GW Reports

Run-on

Inspections

Other: _____

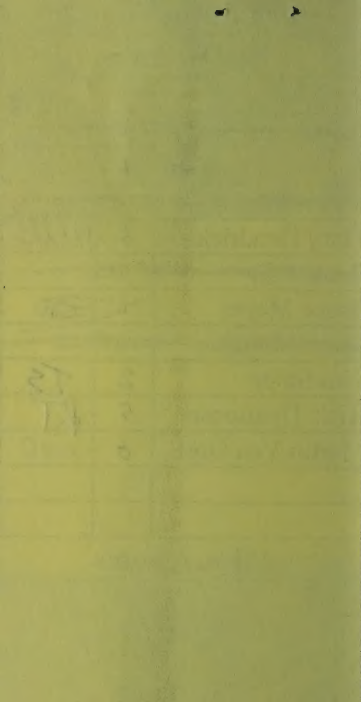


Internal Routing Slip

SW Section

Name		Initials
Loe Blaine		
Janet Handy (1-11)	1	JH
Mitzi Hansen		
Mary Hendrickson	3	MH
Renai Hill		
Bruce Meyer	4	BM
Darrell Stankey		
Tim Stepp	2	TS
Rick Thompson	5	RT
Martin Van Oort	6	MVO

Misc. / Notes



CLOSED MISTER M LANDFILL, LICENSE #302

LEWISTOWN, FERGUS COUNTY, MONTANA

**MAY 2011 GROUNDWATER MONITORING RESULTS
AND STATISTICAL ANALYSES**

Prepared By:

Montana Department of Environmental Quality

Solid Waste Section

July 6, 2011

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1.0 INTRODUCTION

Groundwater monitoring at the closed Mister M Landfill, License #302, was conducted in May 2011 by the Montana Department of Environmental Quality (MDEQ), Solid Waste Section, according to the May 2009 Sampling and Analysis Plan for Methane and Groundwater (SAP) (MDEQ, 2009[2]). The Mister M Landfill is located in Fergus County, Montana, approximately four miles east of Lewistown on US Highway 87, as shown in Figure 1. As shown in Figure 2, the landfill lies in a small south facing coulee which drains to Boyd Creek. The facility received Class II wastes from 1956 to 1998, and was granted interim closure status on December 5, 2000. The current owners, Marvin and Sandra Mintyala, operated the facility from 1974 until approximately 2000, when the site was abandoned.

According to the Geohydrologic Characterization (Gillespie, 1993 revised; and Gillespie, 1994) the landfill is underlain by the Kootenai Formation, which consists of predominately shale with some silty sandstone. A basal unit of sandstone in the Kootenai formation is the uppermost aquifer in the area. Minor amounts of water have been encountered in the upper portions of the Kootenai Formation but most of the monitoring wells completed in the upper Kootenai Formation at the site have frequently been dry or contained minimal volumes of water.

Previous groundwater sampling at the facility was conducted by the owners or their consultants from 1993-1999 (Gillespie, 1995 and 1996; Energy Laboratories, 1997, 1998 [1], and 1998 [2]; and Portage Environmental, 1999 and 2000). From 2003-2007 Tetra Tech, Inc was authorized by the MDEQ to conduct groundwater monitoring in the absence of action by the owners (Energy Laboratories, 2003, 2004, 2005, 2006, and 2007; Maxim, 2005; Tetra Tech, 2006 and 2008). MDEQ Solid Waste Section personnel have conducted groundwater monitoring from January 2009 to the present (MDEQ, 2009 [1]; 2009 [3]; 2010[1]; 2010[2]).

2.0 FIELD PROCEDURES

MDEQ Solid Waste Section personnel conducted monitoring activities on May 23, 24 and 25, 2011 including monitoring well inspections, static water level (SWL) measurements, and groundwater sample collection as part of the assessment monitoring program currently in effect for the facility. The locations of the monitoring points and the activities that were performed at each point are shown in Figure 3. Copies of the field notes are included in Appendix A. All field activities described in this report were conducted in accordance with the approved May 2009 SAP, and any deviations from the SAP are described herein. The analysis of groundwater samples was conducted by Energy Laboratories Inc, in Helena, Montana.

2.1 WELL INSPECTIONS

The monitoring wells currently in use were inspected on May 23, 2011. MW-OW does not have an external casing and the new locking cap installed in April 2009 is already showing significant weather wear. All other monitoring wells are in good condition.

2.2 WATER LEVEL MEASUREMENTS

Static water levels were measured on May 23, 2011 in wells MW-5, MW-6, MW-9R, MW-11, MW-12, and MW-OW using an electric water level meter. The total depths of wells MW-9R, MW-11, and MW-12 were also recorded.

2.3 GROUNDWATER SAMPLING

Groundwater samples were collected May 23, 24, and 25, 2011 from wells MW-9R, MW-11, MW-12, MW-HW, and MW-OW. No samples were collected from well MW-5 during this sampling event. A field duplicate was collected from well MW-9R. No equipment blank was collected because all wells were sampled with disposable bailers. No field blank was collected during the May 2011 sampling event. At each well that was sampled, samples were collected for all of the parameters listed in the SAP with the exception of Chemical Oxygen Demand,

Cyanide, and Mercury. These parameters were excluded from sampling prior to the October 2010 sampling event to reduce analytical costs following review of the historical data.

The wells were purged and sampled following the procedures in the SAP with the deviations described below. Copies of the Monitoring Well Purging and Sampling Forms for each well are included in Appendix A. All of the wells were purged and sampled using disposable bailers. Well MW-12 was flowing at the time of sampling, thus the total volume purged consisted of the volume of water bailed from the well plus the estimated volume which flowed from the well during the bailing process. Field water quality measurements were made using a Hanna model 991-300 water quality meter, which was calibrated to the pH and conductivity reference solutions on May 23, 2011. Dissolved oxygen and oxidation-reduction potential (ORP) measurements were not taken because the field meter did not have sensors for these parameters.

After collection, the samples were labeled as described in the SAP and were stored on ice in a laboratory supplied cooler. The samples were stored according to chain-of-custody requirements and hand delivered to Energy Laboratories Inc in Helena, Montana on May 25, 2011.

3.0 MONITORING RESULTS

3.1 GROUNDWATER LEVELS AND FLOW

The groundwater levels measured during May 2011 were the highest on record for the facility. The water levels in May 2011 were 3.61 to 6.71 feet higher than the June 2010 measurements due to an extraordinarily wet winter and spring, and 4.03 to 22.90 feet higher than the October 2010 measurements. Figure 4 displays the May 2011 static water levels on a map. No attempt was made to contour the static water levels as the shallow wells are completed in minor water bearing zones of unknown horizontal extent and connectivity, and the water level measurements made in the deep water bearing zone are from wells that have not yet been surveyed. Groundwater flow in the shallow water bearing zones likely follows local topography and flows in a south to southwest direction. Groundwater flow in the deep water bearing zone is assumed to be to the southwest based on records from domestic wells in the area. Copies of the Water Level Measurement Forms are included in Appendix A. Tables containing historic water levels and hydrographs for both the shallow and deep water bearing zones are included in Appendix B.

3.2 DATA VALIDATION

Upon receipt from the laboratory, the analytical results were validated as described in the SAP to ensure that the data quality objectives had been met. The samples were received by the laboratory at a temperature of 5.0°C. The pH of all samples was within acceptable limits. All samples were analyzed within the required holding times. The relative percent difference for all field and laboratory duplicates were within control limits. All laboratory control samples and blanks were acceptable. No VOCs were detected in the Trip Blank. A copy of the laboratory QA/QC report is included in Appendix C.

3.3 GROUNDWATER ANALYTICAL RESULTS

The following sections discuss the analytical results grouped by analyte type. A copy of the laboratory analytical report is included in Appendix D. Historical concentration plots for all

parameters detected during this sampling event and a table containing historical analytical results are included in Appendix E.

3.3.1 Indicator Parameters

Groundwater at the facility has a neutral to slightly alkaline pH, with values from 7.2 to 7.8 reported for this event. These pH values were lower than the October 2009 and October 2010 values, and similar to previous measurement for the facility. Specific conductance ranged from 612 in the sample from MW-11 to 892 in the MW-9R duplicate. Sulfate and Chloride increased in MW-OW but were similar to previous events in MW-9R, MW-11, and MW-12. The concentration of Sulfate (17 mg/L) remained below historic levels in MW-OW, while the concentration of Chloride (54 mg/L) was the highest level recorded since a possible outlier in 1998. Nitrate + Nitrite was not detected in MW-11, MW-12, and MW-OW. Nitrate + Nitrite was detected at a concentration of 1.52 mg/L in MW-9R and its duplicate, well below the maximum contaminant level (MCL) of 10 mg/L and slightly lower than previous values. These values are less than those observed in the background well MW-5 in previous sampling events and in other shallow wells.

3.3.2 Dissolved Metals

Two metals were detected in facility wells during this sampling event. Iron was detected in MW-11, MW-12, and MW-OW at 0.18, 0.53, and 0.86 mg/L respectively, and showed small increases from the October 2010 sample results. The values for MW-11 and MW-12 are typical for deeper aquifer wells, and the value for MW-OW is only slightly higher than typical deeper aquifer values. The concentrations in MW-12 and MW-OW are greater than the secondary MCL for Iron of 0.3 mg/L. Zinc was detected in MW-OW at 1.28 mg/L, which is higher than typical for the deeper aquifer. The zinc concentration in MW-OW was the second highest on record for the facility.

3.3.3 Volatile Organic Compounds

Eleven VOCs were detected in MW-OW and during this sampling event. Seven of these compounds (concentrations in µg/L), Benzene (1.2), Ethyl benzene (1.6), Styrene (1.9), Total

Xylenes (0.42 J), Trichloroethene (0.23 J), cis-1,2-Dichloroethene (30), and Vinyl chloride (0.76 J), have been routinely detected in MW-OW, but generally increased in concentration from the October 2010 sampling. The remaining four compounds, Bromochloromethane (0.45 J), Chloromethane (0.20 J), 1,2-Dichloroethane (0.17 J), and Methyl ethyl ketone (17 J), were detected for the first time at this facility. The concentrations of these four new VOCs were all estimated values below laboratory reporting limits and further sampling will indicate if they represent a change in groundwater conditions or field or laboratory contamination. Vinyl chloride remains above the Montana Human Health Standard for groundwater of 0.2 ug/L but below the MCL of 2 ug/L. Four VOCs were detected in MW-9R and its duplicate sample: Tetrachloroethene (1.1, 1.2), Trichloroethene (0.43 J, 0.43 J) cis-1,2-Dichloroethene (18, 18), and Dichlorodifluoromethane (0.54 J, 0.52 J). All of these compounds have been detected previously in MW-9R, although Trichloroethene and Dichlorodifluoromethane were not detected during the October 2010 sampling event. The concentrations of Tetrachloroethene and cis-1,2-Dichloroethene increased significantly from the October 2010 values and matched or exceeded the highest concentrations on record. Two VOCs, Carbon disulfide (0.14 J) and cis-1,2-Dichloroethene (0.80 J), were detected in well MW-12, although Carbon disulfide is a common laboratory contaminant. The concentration of cis-1,2-Dichloroethene increased from the October 2010 sampling event. VOCs were not detected in MW-11 or MW-HW.

4.0 STATISTICAL ANALYSIS

4.1 STATISTICAL METHODS

The statistical analyses were performed using the groundwater statistical software package Sanitas v.9.0.34. The analyses were conducted separately for the shallow well (MW-9R) and deep wells (MW-HW, MW-11, MW-12, and MW-OW). The validated analytical data was first screened to determine which parameters required statistical analysis. Only parameters which were detected in one or more compliance wells (MW-11, MW-12, and MW-OW) and had been historically detected at least once in the background well (MW-HW) were analyzed. If a parameter was detected in a compliance well, but was always non-detected in the background dataset, the background value was set as the detection limit and any detection of that parameter was considered a statistical exceedance of background. As a result of the screening described above, the parameters selected for statistical analysis were: pH (shallow and deep), SC (shallow and deep), Chloride (shallow and deep), Sulfate (shallow and deep), Nitrate + Nitrite (shallow), Iron (deep), Zinc (deep), and all detected VOCs (shallow and deep).

For the deep wells each selected parameter was compared to the background dataset using an inter-well prediction interval analysis. The Sanitas software determines the distribution of the background dataset and performs the appropriate statistical test for that distribution. If the prediction interval analysis indicated an exceedance of background levels, a Sen's Slope/Mann Kendall test was conducted to analyze any trends in the data. All of the statistical tests were performed at a 95% site-wide confidence level, or the maximum confidence level that was possible given the size of the background dataset if a 95% confidence level was not possible.

Additional review of the data from all of the shallow wells indicated that groundwater chemistry varies significantly between the different shallow wells, making the use of the up gradient wells as a background dataset suspect. Because of this, only trend analyses were conducted for the shallow well. A Sen's Slope/Mann Kendall test was conducted on all parameters detected in MW-9R to analyze any trends in the data.

4.2 ANALYSIS RESULTS

Table 1 contains a summary of the results of the statistical analyses. The full results of the statistical analyses are included in Appendix F. Due to the small size of the background dataset the site-wide confidence levels for non-parametric tests were less than 95%. The tests for Chloride, Sulfate, and Iron in the deep wells (MW-11, MW-12, and MW-OW) had a site-wide confidence level of 86.36%. Trend analyses cannot be conducted in MW-11 and MW-12 until the dataset includes four sampling events.

The values from the current sampling event for pH, SC and Sulfate for all of the deep wells and for Chloride and Iron in MW-11 and MW-12 were within the prediction limits. Chloride exceeded the prediction limits in MW-OW and exhibited a significant increasing trend. Iron and Zinc in MW-OW exceeded the prediction limits, but did not display significant increasing trends. Because none of the VOCs detected in MW-12 and MW-OW have been detected in the background well, the prediction limits for these parameters was detection and all were exceedances. Ethyl benzene and Styrene exhibited significant increasing trends in MW-OW.

This was the sixth sampling event for MW-9R, thus evaluation of the significance of trend is now possible for the data from MW-9R. At this time, no statistically significant trends were noted in MW-9R.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater monitoring was conducted by the MDEQ at the Mister M Landfill on May 23, 24, and 25, 2010. Water levels were measured in six wells, and groundwater samples were collected from five wells. All currently used wells were inspected.

The static water levels measured during the May 2011 event were the highest on record for the facility. These high water levels were likely due to the spring snowmelt and precipitation, and are evidence that a relatively direct connection may exist between the surface and groundwater. Water levels will continue to be monitored during the quarterly methane monitoring events in the future to provide additional data on water level trends.

Four VOCs were detected in MW-9R at low levels. The contaminants present in MW-9R are different than those seen in MW-OW indicating that the contamination may be from a different source or MW-9R may be closer to the source area than MW-OW; however the precise source of these VOCs is unknown. Because only six sampling events have been conducted at MW-9R, additional data is needed to evaluate the contamination in that well. Dissolved metals have not been detected in MW-9R and no longer need to be sampled at that well. Well MW-9R will continue to be sampled in future events for Inorganics and VOCs. MW-HW was sampled during this event. Additional background data from this well will be useful for evaluating the results from the other deep wells. MW-HW will continue to be sampled on a regular basis to increase the background dataset size for the deep wells. Well MW-OW continues to show both inorganic and organic contamination. Sulfate has returned to near normal levels, but Chloride remains elevated. Zinc and Iron concentrations are variable but remain above normal levels. These metals are possibly the result of previous down-hole equipment associated with the use of MW-OW as a water supply well and not due to landfill leachate. VOCs continue to be detected in MW-OW at generally low levels, but Vinyl chloride exceeds the Montana Human Health Standard for groundwater. MW-OW will continue to be sampled to track concentration trends, but will no longer be a point of compliance well. The new monitoring wells continue to show general chemistry similar to the other deep wells indicating that they are completed in the same deeper aquifer. The analytical results from well MW-11 show no impacts from landfill leachate.

One VOC, cis-1,2-Dichloroethene, was detected at a very low level in MW-12. Based on the detection of cis-1,2-Dichloroethene in MW-12 above background levels but below groundwater protection standards, the facility will remain in assessment monitoring with semi-annual sampling. MW-11 and MW-12 will continue to be sampled as the point of compliance wells for the facility.

The next groundwater sampling event will be conducted in October 2011. The Sampling and Analysis Plan for the facility will be updated prior to the Fall 2011 sampling event to include the new wells and modified sampling procedures.

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Table 1. Summary of Features in Statistical Analysis

Feature	Year	Description	Statistical Test of Significance			Test Results		
			Chi-Square	F-Statistic	t-Statistic	Chi-Square	F-Statistic	t-Statistic
Age	1970-1979	Age	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Age	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Age	10.2	1.2	1.2	Yes	Yes	Yes
Sex	1970-1979	Sex	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Sex	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Sex	10.2	1.2	1.2	Yes	Yes	Yes
Marital	1970-1979	Marital	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Marital	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Marital	10.2	1.2	1.2	Yes	Yes	Yes
Education	1970-1979	Education	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Education	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Education	10.2	1.2	1.2	Yes	Yes	Yes
Income	1970-1979	Income	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Income	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Income	10.2	1.2	1.2	Yes	Yes	Yes
Health	1970-1979	Health	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Health	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Health	10.2	1.2	1.2	Yes	Yes	Yes
Religion	1970-1979	Religion	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Religion	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Religion	10.2	1.2	1.2	Yes	Yes	Yes
Occupation	1970-1979	Occupation	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Occupation	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Occupation	10.2	1.2	1.2	Yes	Yes	Yes
Political	1970-1979	Political	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Political	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Political	10.2	1.2	1.2	Yes	Yes	Yes
Social	1970-1979	Social	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Social	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Social	10.2	1.2	1.2	Yes	Yes	Yes
Economic	1970-1979	Economic	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Economic	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Economic	10.2	1.2	1.2	Yes	Yes	Yes
Cultural	1970-1979	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
Environmental	1970-1979	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
Technological	1970-1979	Technological	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Technological	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Technological	10.2	1.2	1.2	Yes	Yes	Yes
Political	1970-1979	Political	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Political	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Political	10.2	1.2	1.2	Yes	Yes	Yes
Social	1970-1979	Social	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Social	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Social	10.2	1.2	1.2	Yes	Yes	Yes
Economic	1970-1979	Economic	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Economic	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Economic	10.2	1.2	1.2	Yes	Yes	Yes
Cultural	1970-1979	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Cultural	10.2	1.2	1.2	Yes	Yes	Yes
Environmental	1970-1979	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Environmental	10.2	1.2	1.2	Yes	Yes	Yes
Technological	1970-1979	Technological	10.2	1.2	1.2	Yes	Yes	Yes
	1980-1989	Technological	10.2	1.2	1.2	Yes	Yes	Yes
	1990-1999	Technological	10.2	1.2	1.2	Yes	Yes	Yes

TABLES

Table 1: Summary of Results of Statistical Analyses

Parameter	Well	Prediction Interval Analysis					Trend Analysis	
		Distribution	Confidence Level (%)	Prediction Limit(s)	Result	Exceeds Limit?	Slope (per yr)	Significant ?
pH	MW-9R	N/A	N/A	N/A	7.2	N/A	-0.015	No
	MW-11	normal	95	6.86-8.10	7.7	No	N/A	N/A
	MW-12	normal	95	6.86-8.10	7.4	No	N/A	N/A
	MW-OW	normal	95	6.86-8.10	7.8	No	N/A	N/A
SC	MW-9R	N/A	N/A	N/A	887	N/A	+5.373	No
	MW-11	normal	95	874.1	612	No	N/A	N/A
	MW-12	normal	95	874.1	668	No	N/A	N/A
	MW-OW	normal	95	874.1	739	No	N/A	N/A
Chloride	MW-9R	N/A	N/A	N/A	25	N/A	+0.910	No
	MW-11	non-normal	86.36	10	3	No	N/A	N/A
	MW-12	non-normal	86.36	10	5	No	N/A	N/A
	MW-OW	non-normal	86.36	10	54	Yes	+1.177	Yes
Sulfate	MW-9R	N/A	N/A	N/A	36	N/A	-3.556	No
	MW-11	non-normal	86.36	107	38	No	N/A	N/A
	MW-12	non-normal	86.36	107	31	No	N/A	N/A
	MW-OW	non-normal	86.36	107	17	No	N/A	N/A
Nitrate+Nitrite	MW-9R	N/A	N/A	N/A	1.52	N/A	-0.371	No
Iron	MW-11	non-normal	86.36	0.75	0.18	No	N/A	N/A
	MW-12	non-normal	86.36	0.75	0.53	No	N/A	N/A
	MW-OW	non-normal	86.36	0.75	0.86	Yes	+0.031	No
Zinc	MW-OW	square root	95	0.088	1.28	Yes	+0.023	No
Benzene	MW-OW	ND	N/A	ND	1.2	Yes	+0.042	No
Bromochloromethane	MW-OW	ND	N/A	ND	0.45 J	Yes	0	No
Carbon disulfide	MW-12	ND	N/A	ND	0.14 J	Yes	?	?
Chloromethane	MW-OW	ND	N/A	ND	0.20 J	Yes	0	No
Dichlorodifluoromethane	MW-9R	N/A	N/A	N/A	0.53 J	N/A	0	No
1,2-Dichloroethane	MW-OW	ND	N/A	ND	0.17 J	Yes	0	No
cis-1,2-Dichloroethene	MW-9R	N/A	N/A	N/A	18	N/A	+0.577	No
	MW-12	ND	N/A	ND	0.80 J	Yes	?	?
	MW-OW	ND	N/A	ND	30	Yes	+1.335	No
Ethyl benzene	MW-OW	ND	N/A	ND	1.6	Yes	+0.044	Yes
Methyl ethyl ketone	MW-OW	ND	N/A	ND	17 J	Yes	0	No
Styrene	MW-OW	ND	N/A	ND	1.9	Yes	+0.054	Yes
Tetrachloroethene	MW-9R	N/A	N/A	N/A	0.33 J	N/A	+0.007	No
Trichloroethene	MW-9R	N/A	N/A	N/A	0.43 J	N/A	+0.014	No
	MW-OW	ND	N/A	ND	0.23 J	Yes	+0.0003	No
Vinyl chloride	MW-OW	ND	N/A	ND	0.76 J	Yes	+0.025	No
Total Xylenes	MW-OW	ND	N/A	ND	0.42 J	Yes	0	No

Notes:

ND = Non-detect

N/A = Not applicable

? = Insufficient data for test

FIGURES

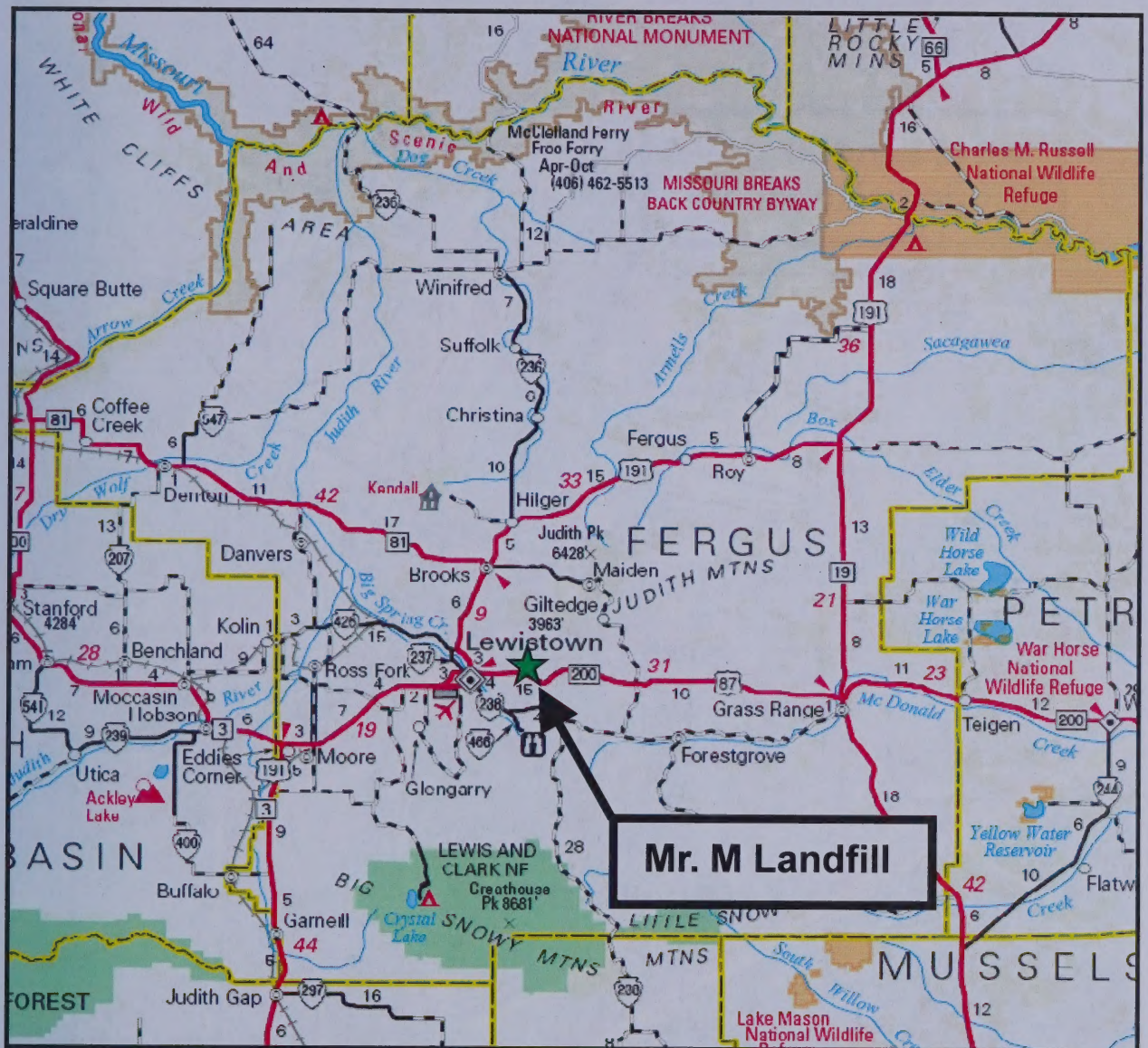


Figure 1: Location Map

Adapted from State of Montana Highway Map.

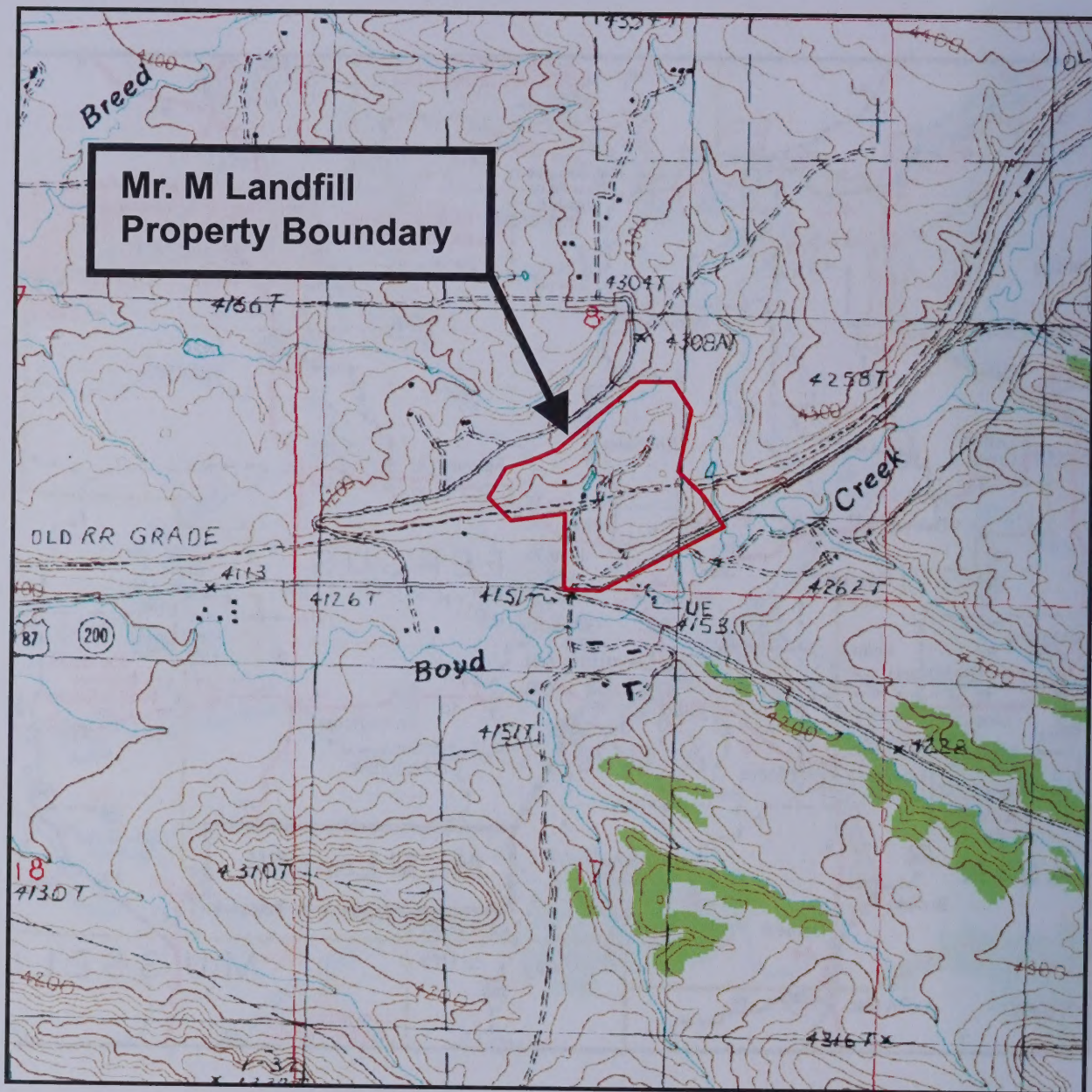


Figure 2: Facility Map

Adapted from USGS Pike Creek 24k Quadrangle.



Figure 3: Locations of Monitoring Points

Base Aerial Photo from 2009.



Figure 4: Groundwater Levels

Base Aerial Photo from 2009.

The reference elevations for MW-9R, MW-11, MW-12, and MW-OW are estimated from topographic contours and field observations.

APPENDIX A: FIELD NOTES & FORMS

9/29/11

Martin Van Dant

- 730 On site
- 735 At MW-12, setting up
- 740 Pump on site
- 745 Pump set up, back to MW-12
- 1230 Cleanup at MW-12
- 1250 Check on pond.
- 1300 Going to get fuel for pump
- 1320 Drop off fuel by pump
- 1330 Leave site

~~not a~~

5/24/11

Marty Van Dert

1110 Rick Cont.

Rick will check with WPB on
liability for emergency actions.
I will check with Richards if
they can get high capacity pump
and/or equipment to breach
pond if necessary.

1130 Leave site for lunch.

1215 Back on site.

1225 AT MW-11, setting up.

1230 Spoke with Mr. Richards.
Largest pump in town is 3 inch.
pumps less than 1/4 the rate
of Tim's pump. He would
travel to pick up a larger pump
& run it if needed. He knows
several places in town to get
a backhoe if we need to breach
the pond.

1535 Cleanup at MW-11

1545 Varies. Tim has found pump.
Talked to Clyde with rental place.
Will come out to see site. Give
directions.

Marty Van Dert

5/24/11

Marty Van Dert

1600 AT MW-HW, setting up.

1630 Meet Clyde about pump. They
will be out tomorrow by 8:30 +.
set up.

1645 Back at MW-HW

1705 Cleanup at MW-HW

1710 Done at MW-HW

1715 Stop at Richards to tell them
about pump.

1730 Finished for day.

Marty Van Dert

"All in the Rain"

5/23/11

Morton Van Dant

1405

MW-5

DTW = 88.73

1335

North Vent

 $O_2 = 20.5$ LEL = 0 $H_2S = 0$ CO = 0

1330

South Vent

 $O_2 = 20.9$ LEL = 0 $H_2S = 0$ CO = 0

1420

MW-9R

DTW = 17.24

1428

MW-11

DTW = 28.42

1440

MW-12

Flowing!

1445

MW-OW

DTW = 17.01

1455

Calibrate field meter

pH probe would not calibrate
unknown error, pH readings
will likely be off target

1535

set up at MW-9R

1730

Finished, cleaning up at
MW-9R

1745

Done at MW-9R,

1800

Leave site

5/24/11

Morton Van Dant

730

On Site

740

At MW-OW, setting up

800

Start

840

Heavy rain, wait out in truck

845

Back to work

905

Heavy rain ~ South

915

Very heavy rain ~ 15 mph

950

Heavy rain ~ South

1005

Heavy rain ~ North

1055

Picking up at MW-OW

1100

Finished at MW-OW

1105

Talked to Mr. Richards, who
is looking in basement & yard.
Would not mind water in front
yard (natural drainage if pond
was breached).

1110

Called Rick. Told him about
pond levels & Mr. Richards' report.
He will check with Tim & Bob
Church, who will reimburse
Richards for pump if they could
get high capacity pump. Rick
wants to see if we can breach
pond before drainage is reduced.

"Rite in the Rain"

5/23/11

Martin Van Oort

1105 On site

1115 Calibrate CH₄ Meter

Pre: O₂ = 18.7 LEL = 53.5

H₂S = 18.4 CO = 194

Post: O₂ = 18.5 LEL = 50.5

H₂S = 20.2 CO = 201

1130 MW-1 O₂ = 20.3 LEL = 0

H₂S = 1.4 CO = 0

H₂S finds after natural seep

1140 MW-2 O₂ = 13.5 LEL = 0

H₂S = 0.4 CO = 0

1155 AT locate seep at toe (LS-2)

Shore extends ~ 12 ft beyond

source ^{very} slight petro odor.

Nothing detected by meter

1205 Large seep on SW slope just off

road, photo graphed. Looks

like tar/oil. Black & heavy.

1210 Lunch during rain shower

1235 MW-6M, O₂ = 17.4 LEL = 0

H₂S = 0 CO = 0

1245 MW-6 DTW = 86.83

1355 MW-5M, O₂ = 2.0 LEL = 0

H₂S = 0 CO = 0

Wt Wt

"Rite in the Rain"

Water Level Measurement Form

Site Name: Miller M Lindfill Date: 5/23/11

Personnel: Mark Van Dort Equipment: Slope Indicator

Field Conditions: Mostly cloudy, 60's, rain showers

[illegible]

Notes: _____

Signature: _____ Page _____ of _____

Site Name: Middle M Landfill Date: 5/23/11

Personnel: Martin Van Oort

Field Conditions: Raining

Meter Model: Hanna

Parameters/Sensors: pH, Cond, Temp

[illegible]

Notes: pH probe would not calibrate

Signature:

mt hA

Site Name: Misty M Lindfill Sample Location: MW-9R
Personnel: Martin Van Dert Sample ID: M-M-MW-9R

Date: 5/23/11 Field Conditions: Raining, 60's, becoming sunny & warm

Depth to Water (DTW): 17.25 Total Depth of Well (TD): 50.3

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 5.39 Three Well Volumes: 16.16

Purge Equipment: Bailer Pump Depth: — Start Time: 1545

[illegible]

Sample Time: 1710 Sampling Method: Bulk

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, SCB	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 17.3 gal Final Depth to Water: 16.83 (1740) End Time: 1730

Notes: Duplicate sample 1715, M₁M-MW-9R-04P

Sampler Signature:  Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mistic M Landfill Sample Location: MW-0W
 Personnel: Martin Van Oort Sample ID: MM-MW-0W
 Date: 5/24/11 Field Conditions: cloudy, rainy, upper 40's
 Condition of Well: No outer casing, former water well
 Depth to Water (DTW): 15.83 Total Depth of Well (TD): 78
 Well Diameter: 4" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469
 One Well Volume (gallons) = (TD - DTW) x C: 39.94 Three Well Volumes: 119.83
 Purge Equipment: Bailer Pump Depth: — Start Time: 800

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
808	1			6.98	0.66	46.1				
840	11			6.98	0.61	47.3				
915	21			6.98	0.68	46.8				
945	31			6.99	0.78	47.8				
1000	36			6.99	0.75	47.5				
1020	41			6.98	0.79	47.0				

Sample Time: 1035 Sampling Method: Bailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 42 Final Depth to Water: — End Time: 1250

Notes: Collected field measurements & sampled from water from bottom of well.

Sampler Signature: Wt HLT

Monitoring Well Purging and Sampling Form

Site Name: Mister M Landfill Sample Location: MW-11

Personnel: Martin Van Oort Sample ID: MM-MW-11

Date: 5/24/11 Field Conditions: Rainy, windy, ~50°

Condition of Well: Good

Depth to Water (DTW): 28.17 Total Depth of Well (TD): 82.9

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 8.92 Three Well Volumes: 26.76

Purge Equipment: Bailer Pump Depth: — Start Time: 1300

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1310	1			6.99	0.71	49.1				
1335	6			6.99	0.61	48.3				
1400	11			6.98	0.61	47.7				
1435	16			6.98	0.61	47.6				
1510	26			6.98	0.60	47.6				

Sample Time: 1525 Sampling Method: Bailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 27 Final Depth to Water: — End Time: 1535

Notes: _____

Sampler Signature: [Signature] Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Landfill Sample Location: MW-HW

Personnel: Martin Van Dant Sample ID: M-M-MW-HW

Date: 5/24/11 Field Conditions: Cool, windy, drizzle

Condition of Well: Unknown, spigot behind house

Depth to Water (DTW): — Total Depth of Well (TD): —

Well Diameter: — Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: — Three Well Volumes: —

Purge Equipment: Installed pump Pump Depth: — Start Time: 1605

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1608	3	~3								
1613				6.99	0.75	49.2				
1627				6.98	0.74	49.0				
1645				6.98	0.75	49.4				
1656				6.98	0.75	49.5				

Sample Time: 1700 Sampling Method: Spigot nearest house

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 153 Final Depth to Water: — End Time: 1705

Notes:

Sampler Signature: WGH

Monitoring Well Purging and Sampling Form

Site Name: Middle M Landfill Sample Location: MW-12
 Personnel: Martin Van Oort Sample ID: MM-MW-12

Date: 5/25/11 Field Conditions: Cloudy, mist, 50's

Condition of Well: Good

Depth to Water (DTW): Flowing Total Depth of Well (TD): 105.3

Well Diameter: 21" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 17.16 - Three Well Volumes: 51.48 -

Purge Equipment: Bailer Pump Depth: - Start Time: 855

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
920	1			6.98	0.68	47.5				Flowing ~ 0.25 gpm
945	11			6.98	0.66	49.5				
1150	26			6.99	0.64	48.9				
1155										~45 gallons Flowing

Sample Time: 1220 Sampling Method: Bailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: ~75 Final Depth to Water: - End Time: 1230

Notes: _____

Sampler Signature: [Signature]

APPENDIX B: HISTORICAL GROUNDWATER LEVELS

Table B-1: Historical Water Levels

Date	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-7R	MW-8	MW-9	MW-9R	MW-10	MW-10R	MW-11	MW-12	MW-OW
6/16/93	Dry	Dry	Dry	Dry	Dry	Dry		Dry							NM
10/14/94	NM	NM	NM	NM	NM	NM		NM	Dry		4155.69				NM
12/15/95	4154.12	Dry	Dry	4177.65	4160.64	4173.00		Dry	4140.77		4160.92				NM
3/28/96	4157.37	NM	NM	NM	NM	4176.51		NM	4139.43		4158.09				NM
11/29/05	4154.17	4174.1	NM	4181.82	Dry		Dry	4155.06		4159 ⁽¹⁾		4161 ⁽¹⁾			NM
12/18/07	Dry	Dry	Dry	4165.54	Dry		Dry	4155.04		4159 ⁽¹⁾		4164 ⁽¹⁾			4162 ⁽¹⁾
1/21/09	4153.12	Dry	NM	4165.75 ⁽²⁾	? ⁽³⁾		4177 ⁽¹⁾⁽⁴⁾	NM		4159 ⁽¹⁾		4164 ⁽¹⁾			4163 ⁽¹⁾
6/1/09	NM	NM	NM	4172.02	NM		NM	NM		4163 ⁽¹⁾		4170 ⁽¹⁾			4170 ⁽¹⁾
10/26/09	NM	NM	NM	4165.23	NM		NM	NM		4160 ⁽¹⁾		4164 ⁽¹⁾			4163 ⁽¹⁾
2/26/10	NM	NM	Dry	4165.44	4160.07		4177 ⁽¹⁾	4154.52		4159 ⁽¹⁾		NM ⁽⁵⁾			4162 ⁽¹⁾
6/21/10	NM	NM	NM	4172.91	4171.36		4190 ⁽¹⁾	4169.97		4180 ⁽¹⁾		NM ⁽⁵⁾			4172 ⁽¹⁾
10/25/10	NM	NM		4169.50	4166.84					4161 ⁽¹⁾			4168 ⁽¹⁾	4167 ⁽¹⁾	4168 ⁽¹⁾
5/23/11	NM	NM		4179.62	4178.04					4161 ⁽¹⁾			4172 ⁽¹⁾	Flowing ⁽¹⁾⁽⁶⁾	4179 ⁽¹⁾

Notes:

NM = Not measured

= Well not present.

(1) Reference elevation estimated from topographic contours (5ft) and field observations

(2) Deeper than tape, 2 ft. of water in well, DTW calculated from TD recorded 12/18/07

(3) Deeper than tape, DTW unknown

(4) 3 in. of water in well, DTW calculated from TD

(5) Well damaged, measurement not possible.

(6) Well flowing artesian at time of measurement, top of casing elevation 4169ft

Figure B-1: Static Water Levels in Shallow Wells

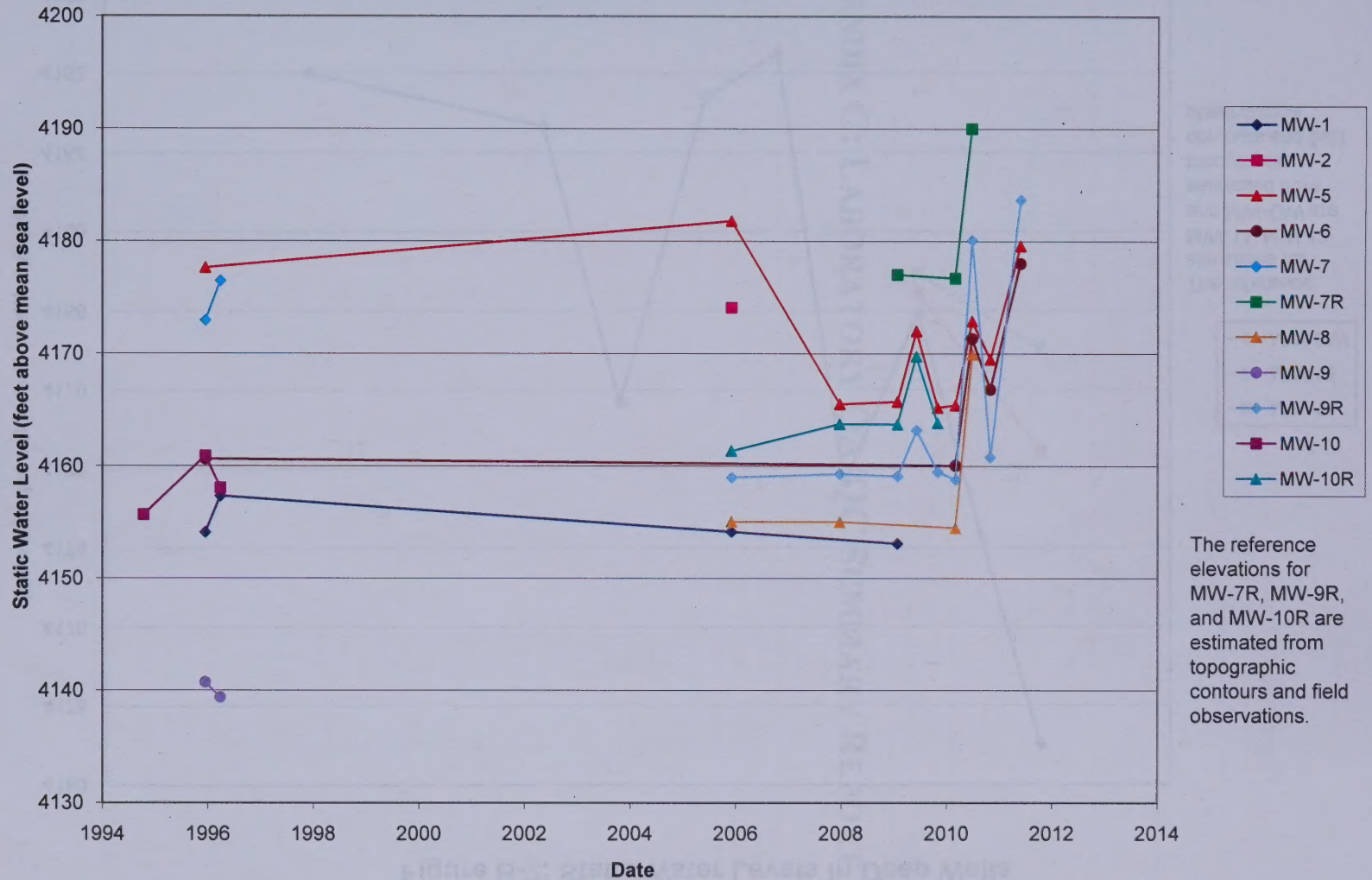
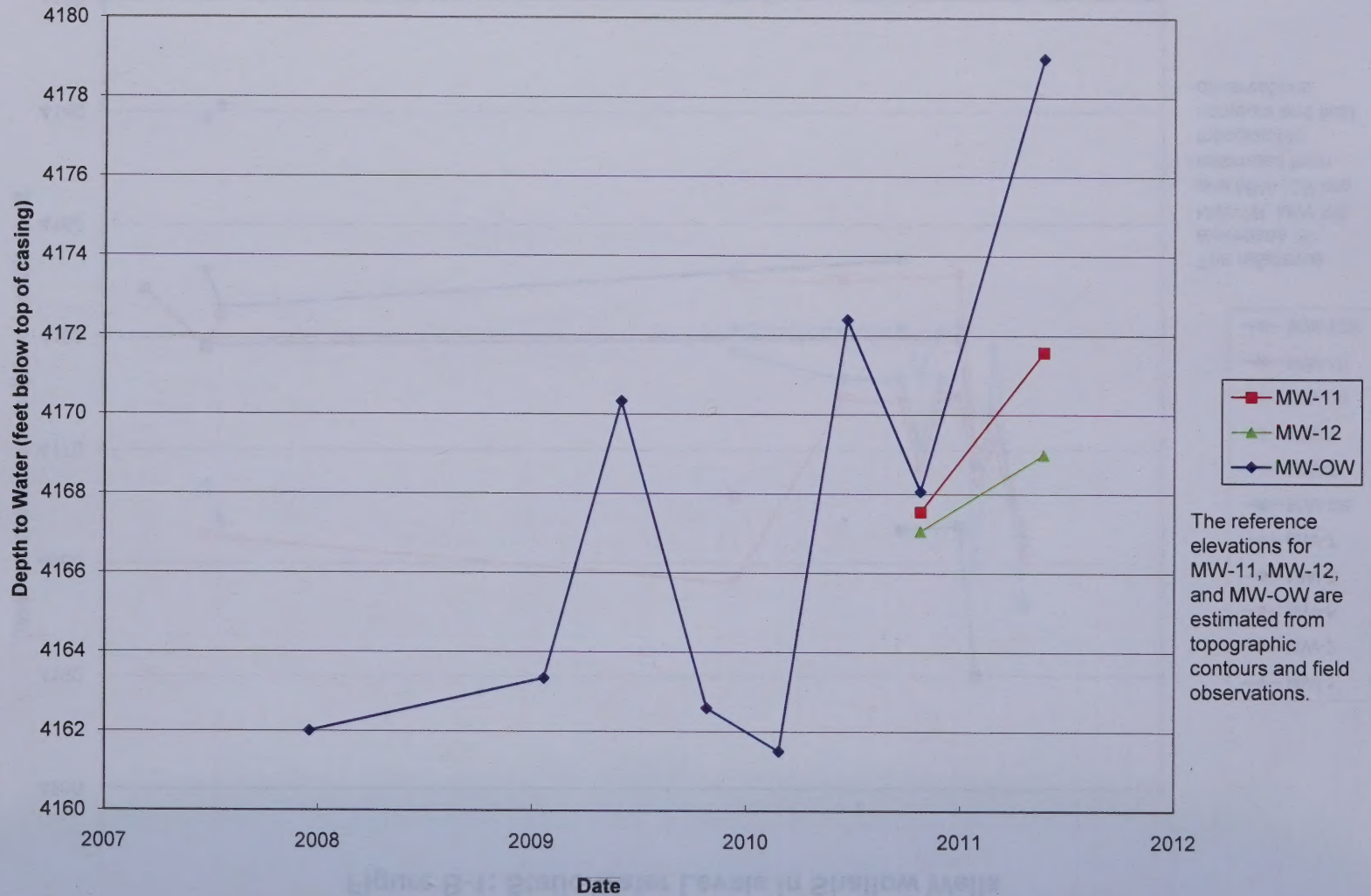


Figure B-2: Static Water Levels in Deep Wells



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-007
Client Sample ID TB 04/28/11 EM HCL1618 011011-3

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-007
Client Sample ID TB 04/28/11 EM HCL1618 011011-3

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Surr: 1,2-Dichloroethane-d4	102	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: Toluene-d8	82.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										
Sample ID: ICV1_110526A		Initial Calibration Verification Standard							Analytical Run: COND_110526A	
Conductivity		982	umhos/cm	1.0	98	90	110			05/26/11 09:54

Method: A2510 B		Batch: 110526A-COND-PROBE-W	
Sample ID: H11050365-001ADUP	Sample Duplicate	Run: COND_110526A	05/26/11 10:01
Conductivity	892 umhos/cm	1.0	1.2 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										
Analytical Run: PH2_110526A										
Sample ID: CCV1_110526A	Continuing Calibration Verification Standard									
pH		4.00	s.u.	0.10	100	98	102			05/26/11 09:45
Sample ID: CCV2_110526A	Continuing Calibration Verification Standard									
pH		7.02	s.u.	0.10	100	98	102			05/26/11 09:50
Sample ID: ICV1_110526A	Initial Calibration Verification Standard									
pH		7.06	s.u.	0.10	101	99	101			05/26/11 09:52
Method: A4500-H B										
Batch: 110526A-PH-W										
Sample ID: CCV3_110526A	Continuing Calibration Verification Standard									
pH		10.1	s.u.	0.10	101	98	110			05/26/11 09:43
Sample ID: H11050365-001ADUP	Sample Duplicate									
pH		7.22	s.u.	0.10				0.0		05/26/11 10:06 3

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_110526A								
Sample ID: ICV STD		16 Initial Calibration Verification Standard								
		05/26/11 10:40								
Antimony		0.0502	mg/L	0.050	100	90	110			
Arsenic		0.0499	mg/L	0.0050	100	90	110			
Barium		0.0500	mg/L	0.10	100	90	110			
Beryllium		0.0251	mg/L	0.0010	100	90	110			
Cadmium		0.0262	mg/L	0.0010	105	90	110			
Chromium		0.0499	mg/L	0.010	100	90	110			
Cobalt		0.0509	mg/L	0.010	102	90	110			
Copper		0.0509	mg/L	0.010	102	90	110			
Iron		0.267	mg/L	0.030	107	90	110			
Lead		0.0502	mg/L	0.010	100	90	110			
Nickel		0.0510	mg/L	0.010	102	90	110			
Selenium		0.0512	mg/L	0.0050	102	90	110			
Silver		0.0250	mg/L	0.0050	100	90	110			
Thallium		0.0499	mg/L	0.10	100	90	110			
Vanadium		0.0498	mg/L	0.10	100	90	110			
Zinc		0.0504	mg/L	0.010	101	90	110			
Sample ID: ICSA		16 Interference Check Sample A								
		05/26/11 10:44								
Antimony		0.000380	mg/L	0.050						
Arsenic		0.000188	mg/L	0.0050						
Barium		0.000243	mg/L	0.10						
Beryllium		1.40E-05	mg/L	0.0010						
Cadmium		0.000763	mg/L	0.0010						
Chromium		0.00253	mg/L	0.010						
Cobalt		0.00212	mg/L	0.010						
Copper		0.000612	mg/L	0.010						
Iron		124	mg/L	0.030	124	70	130			
Lead		0.000107	mg/L	0.010						
Nickel		0.00151	mg/L	0.010						
Selenium		0.000268	mg/L	0.0050						
Silver		0.000241	mg/L	0.0050						
Thallium		4.00E-05	mg/L	0.10						
Vanadium		0.000263	mg/L	0.10						
Zinc		0.00166	mg/L	0.010						
Sample ID: ICSAB		16 Interference Check Sample AB								
		05/26/11 10:48								
Antimony		0.000396	mg/L	0.050		0	0			
Arsenic		0.0107	mg/L	0.0050	107	70	130			
Barium		0.000220	mg/L	0.10		0	0			
Beryllium		5.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0109	mg/L	0.0010	109	70	130			
Chromium		0.0228	mg/L	0.010	114	70	130			
Cobalt		0.0232	mg/L	0.010	116	70	130			
Copper		0.0208	mg/L	0.010	104	70	130			
Iron		124	mg/L	0.030	124	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_110526A								
Sample ID: ICSAB		16 Interference Check Sample AB								05/26/11 10:48
Lead		9.30E-05	mg/L	0.010		0	0			
Nickel		0.0222	mg/L	0.010	111	70	130			
Selenium		0.0103	mg/L	0.0050	103	70	130			
Silver		0.0208	mg/L	0.0050	104	70	130			
Thallium		2.00E-06	mg/L	0.10		0	0			
Vanadium		0.0211	mg/L	0.10	105	70	130			
Zinc		0.0115	mg/L	0.010	115	70	130			
Method: E200.8		Batch: R71312								
Sample ID: ICB		16 Method Blank								05/26/11 11:15
		Run: ICPMS204-B_110526A								
Antimony		ND	mg/L	7E-06						
Arsenic		ND	mg/L	3E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	9E-06						
Copper		ND	mg/L	3E-05						
Iron		0.002	mg/L	0.0002						
Lead		ND	mg/L	1.0E-05						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	4E-05						
Silver		3E-05	mg/L	3E-05						
Thallium		ND	mg/L	7E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.0006	mg/L	0.0003						
Sample ID: LFB		16 Laboratory Fortified Blank								05/26/11 11:19
		Run: ICPMS204-B_110526A								
Antimony		0.0466	mg/L	0.050	93	85	115			
Arsenic		0.0435	mg/L	0.0050	87	85	115			
Barium		0.0464	mg/L	0.10	93	85	115			
Beryllium		0.0461	mg/L	0.0010	92	85	115			
Cadmium		0.0460	mg/L	0.0010	92	85	115			
Chromium		0.0446	mg/L	0.010	89	85	115			
Cobalt		0.0450	mg/L	0.010	90	85	115			
Copper		0.0430	mg/L	0.010	86	85	115			
Iron		4.31	mg/L	0.030	86	85	115			
Lead		0.0467	mg/L	0.010	93	85	115			
Nickel		0.0433	mg/L	0.010	87	85	115			
Selenium		0.0428	mg/L	0.0050	86	85	115			
Silver		0.0182	mg/L	0.0050	91	85	115			
Thallium		0.0470	mg/L	0.10	94	85	115			
Vanadium		0.0439	mg/L	0.10	88	85	115			
Zinc		0.0452	mg/L	0.010	89	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Sample ID: H11050359-001BMS	16	Sample Matrix Spike			Run: ICPMS204-B_110526A				Batch: R71312 05/26/11 13:16	
Antimony		0.0461	mg/L	0.0050	92	70	130			
Arsenic		0.0484	mg/L	0.0050	96	70	130			
Barium		0.0786	mg/L	0.10	89	70	130			
Beryllium		0.0443	mg/L	0.0010	89	70	130			
Cadmium		0.0452	mg/L	0.0010	90	70	130			
Chromium		0.0444	mg/L	0.010	89	70	130			
Cobalt		0.0456	mg/L	0.010	91	70	130			
Copper		0.0450	mg/L	0.010	87	70	130			
Iron		4.39	mg/L	0.030	88	70	130			
Lead		0.0464	mg/L	0.010	92	70	130			
Nickel		0.0427	mg/L	0.010	85	70	130			
Selenium		0.0534	mg/L	0.0050	103	70	130			
Silver		0.0179	mg/L	0.0050	89	70	130			
Thallium		0.0462	mg/L	0.0050	92	70	130			
Vanadium		0.0447	mg/L	0.10	89	70	130			
Zinc		0.0540	mg/L	0.010	84	70	130			
Sample ID: H11050359-001BMSD	16	Sample Matrix Spike Duplicate			Run: ICPMS204-B_110526A				05/26/11 13:21	
Antimony		0.0466	mg/L	0.0050	93	70	130	1.1	20	
Arsenic		0.0489	mg/L	0.0050	97	70	130	0.9	20	
Barium		0.0788	mg/L	0.10	89	70	130		20	
Beryllium		0.0438	mg/L	0.0010	88	70	130	1.3	20	
Cadmium		0.0455	mg/L	0.0010	91	70	130	0.7	20	
Chromium		0.0452	mg/L	0.010	90	70	130	1.9	20	
Cobalt		0.0460	mg/L	0.010	92	70	130	0.9	20	
Copper		0.0452	mg/L	0.010	87	70	130	0.4	20	
Iron		4.43	mg/L	0.030	88	70	130	0.8	20	
Lead		0.0467	mg/L	0.010	93	70	130	0.5	20	
Nickel		0.0428	mg/L	0.010	86	70	130	0.4	20	
Selenium		0.0536	mg/L	0.0050	103	70	130	0.4	20	
Silver		0.0182	mg/L	0.0050	91	70	130	1.9	20	
Thallium		0.0466	mg/L	0.0050	93	70	130	0.9	20	
Vanadium		0.0452	mg/L	0.10	90	70	130		20	
Zinc		0.0552	mg/L	0.010	86	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0		Analytical Run: IC102-H_110527A								
Sample ID: ICV	2	Initial Calibration Verification Standard								05/27/11 15:02
Chloride		100	mg/L	1.0	105	90	110			
Sulfate		410	mg/L	1.0	103	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								05/27/11 15:48
Chloride		100	mg/L	1.0	102	90	110			
Sulfate		400	mg/L	1.0	101	90	110			
Method: E300.0		Batch: R71385								
Sample ID: ICB	2	Method Blank								05/27/11 15:13
Chloride		ND	mg/L	0.02						
Sulfate		ND	mg/L	0.02						
Sample ID: LFB	2	Laboratory Fortified Blank								05/27/11 15:25
Chloride		51	mg/L	1.0	103	90	110			
Sulfate		200	mg/L	1.1	100	90	110			
Sample ID: LFBD	2	Laboratory Fortified Blank								05/27/11 15:37
Chloride		50	mg/L	1.0	100	90	110			
Sulfate		200	mg/L	1.1	98	90	110			
Sample ID: H11050365-005AMS	2	Sample Matrix Spike								05/27/11 17:56
Chloride		60	mg/L	1.0	103	90	110			
Sulfate		230	mg/L	1.1	102	90	110			
Sample ID: H11050365-005AMSD	2	Sample Matrix Spike Duplicate								05/27/11 18:07
Chloride		61	mg/L	1.0	105	90	110	1.4	20	
Sulfate		240	mg/L	1.1	104	90	110	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2		Analytical Run: FIA203-HE_110526B								
Sample ID: ICV		Initial Calibration Verification Standard								05/26/11 14:43
Nitrogen, Nitrate+Nitrite as N		1.04	mg/L	0.050	104	90	110			
Sample ID: CCV		Continuing Calibration Verification Standard								05/26/11 14:47
Nitrogen, Nitrate+Nitrite as N		0.496	mg/L	0.050	99	90	110			
Sample ID: ICB		Initial Calibration Blank, Instrument Blank								05/26/11 14:49
Nitrogen, Nitrate+Nitrite as N		-0.00380	mg/L	0.050		0	0			
Method: E353.2		Batch: R71316								
Sample ID: LCS		Laboratory Control Sample				Run: FIA203-HE_110526B			05/26/11 14:45	
Nitrogen, Nitrate+Nitrite as N		24.8	mg/L	0.20	102	90	110			
Sample ID: LFB		Laboratory Fortified Blank				Run: FIA203-HE_110526B			05/26/11 14:46	
Nitrogen, Nitrate+Nitrite as N		0.987	mg/L	0.050	99	90	110			
Sample ID: MBLK		Method Blank				Run: FIA203-HE_110526B			05/26/11 14:51	
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.01						
Sample ID: H11050365-004CMS		Sample Matrix Spike				Run: FIA203-HE_110526B			05/26/11 15:00	
Nitrogen, Nitrate+Nitrite as N		0.962	mg/L	0.050	96	90	110			
Sample ID: H11050365-004CMSD		Sample Matrix Spike Duplicate				Run: FIA203-HE_110526B			05/26/11 15:01	
Nitrogen, Nitrate+Nitrite as N		0.957	mg/L	0.050	96	90	110	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: R71340								
Sample ID: CCV052611A		54 Continuing Calibration Verification Standard								
		05/26/11 10:12								
Acetone		62.4	ug/L	20	125	70	130			
Acrylonitrile		60.8	ug/L	20	122	70	130			
Benzene		5.56	ug/L	1.0	111	70	130			
Bromochloromethane		5.04	ug/L	1.0	101	70	130			
Bromodichloromethane		5.36	ug/L	1.0	107	70	130			
Bromoform		5.64	ug/L	1.0	113	70	130			
Bromomethane		6.00	ug/L	1.0	120	70	130			
Carbon disulfide		5.44	ug/L	1.0	109	70	130			
Carbon tetrachloride		4.84	ug/L	1.0	97	70	130			
Chlorobenzene		5.68	ug/L	1.0	114	70	130			
Chlorodibromomethane		5.12	ug/L	1.0	102	70	130			
Chloroethane		5.20	ug/L	1.0	104	70	130			
Chloroform		5.12	ug/L	1.0	102	80	120			
Chloromethane		5.56	ug/L	1.0	111	70	130			
1,2-Dibromo-3-chloropropane		5.72	ug/L	1.0	114	70	130			
1,2-Dibromoethane		4.80	ug/L	1.0	96	70	130			
Dibromomethane		5.36	ug/L	1.0	107	70	130			
1,2-Dichlorobenzene		5.96	ug/L	1.0	119	70	130			
1,4-Dichlorobenzene		5.40	ug/L	1.0	108	70	130			
trans-1,4-Dichloro-2-butene		4.92	ug/L	1.0	98	70	130			
Dichlorodifluoromethane		5.96	ug/L	1.0	119	70	130			
1,1-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,2-Dichloroethane		5.96	ug/L	1.0	119	70	130			
1,1-Dichloroethene		5.36	ug/L	1.0	107	80	120			
cis-1,2-Dichloroethene		5.44	ug/L	1.0	109	70	130			
trans-1,2-Dichloroethene		5.48	ug/L	1.0	110	70	130			
1,2-Dichloropropane		5.60	ug/L	1.0	112	80	120			
cis-1,3-Dichloropropene		5.56	ug/L	1.0	111	70	130			
trans-1,3-Dichloropropene		5.72	ug/L	1.0	114	70	130			
Ethylbenzene		5.64	ug/L	1.0	113	80	120			
2-Hexanone		56.4	ug/L	20	113	70	130			
Iodomethane		5.88	ug/L	1.0	118	70	130			
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		55.6	ug/L	20	111	70	130			
Methylene chloride		5.72	ug/L	1.0	114	70	130			
Styrene		5.48	ug/L	1.0	110	70	130			
1,1,1,2-Tetrachloroethane		5.52	ug/L	1.0	110	70	130			
1,1,2,2-Tetrachloroethane		5.72	ug/L	1.0	114	70	130			
Tetrachloroethene		5.24	ug/L	1.0	105	70	130			
Toluene		5.56	ug/L	1.0	111	80	120			
1,1,1-Trichloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2-Trichloroethane		5.76	ug/L	1.0	115	70	130			
Trichloroethene		5.12	ug/L	1.0	102	70	130			
Trichlorofluoromethane		4.80	ug/L	1.0	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: CCV052611A										
54 Continuing Calibration Verification Standard										
Analytical Run: R71340										
05/26/11 10:12										
1,2,3-Trichloropropane		5.84	ug/L	1.0	117	70	130			
Vinyl acetate		6.28	ug/L	1.0	126	70	130			
Vinyl chloride		5.96	ug/L	1.0	119	80	120			
m+p-Xylenes		11.4	ug/L	1.0	114	70	130			
o-Xylene		5.72	ug/L	1.0	114	70	130			
Xylenes, Total		17.2	ug/L	1.0	114	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	104	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	94	70	130			
Surr: Toluene-d8				1.0	87	70	130			
Method: SW8260B										
Sample ID: LCS052611A										
54 Laboratory Control Sample										
Run: 1SATURN_110526A										
Batch: R71340										
05/26/11 10:51										
Acetone		54.0	ug/L	20	108	70	130			
Acrylonitrile		55.6	ug/L	20	111	70	130			
Benzene		5.04	ug/L	1.0	101	70	130			
Bromochloromethane		4.72	ug/L	1.0	94	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		5.04	ug/L	1.0	101	70	130			
Bromomethane		6.00	ug/L	1.0	120	70	130			
Carbon disulfide		5.76	ug/L	1.0	115	70	130			
Carbon tetrachloride		4.60	ug/L	1.0	92	70	130			
Chlorobenzene		5.24	ug/L	1.0	105	70	130			
Chlorodibromomethane		4.88	ug/L	1.0	98	70	130			
Chloroethane		5.44	ug/L	1.0	109	70	130			
Chloroform		4.80	ug/L	1.0	96	70	130			
Chloromethane		6.08	ug/L	1.0	122	70	130			
1,2-Dibromo-3-chloropropane		5.20	ug/L	1.0	104	70	130			
1,2-Dibromoethane		4.52	ug/L	1.0	90	70	130			
Dibromomethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichlorobenzene		5.36	ug/L	1.0	107	70	130			
1,4-Dichlorobenzene		5.32	ug/L	1.0	106	70	130			
trans-1,4-Dichloro-2-butene		5.00	ug/L	1.0	100	70	130			
Dichlorodifluoromethane		6.48	ug/L	1.0	130	70	130			
1,1-Dichloroethane		5.16	ug/L	1.0	103	70	130			
1,2-Dichloroethane		5.24	ug/L	1.0	105	70	130			
1,1-Dichloroethene		4.88	ug/L	1.0	98	70	130			
cis-1,2-Dichloroethene		5.04	ug/L	1.0	101	70	130			
trans-1,2-Dichloroethene		5.08	ug/L	1.0	102	70	130			
1,2-Dichloropropane		5.24	ug/L	1.0	105	70	130			
cis-1,3-Dichloropropene		5.16	ug/L	1.0	103	70	130			
trans-1,3-Dichloropropene		5.08	ug/L	1.0	102	70	130			
Ethylbenzene		5.28	ug/L	1.0	106	70	130			
2-Hexanone		50.4	ug/L	20	101	70	130			

Qualifiers:

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71340
Sample ID: LCS052611A	54	Laboratory Control Sample				Run: 1SATURN_110526A				05/26/11 10:51
Iodomethane		4.96	ug/L	1.0	99	70	130			
Methyl ethyl ketone		52.8	ug/L	20	106	70	130			
Methyl isobutyl ketone		51.2	ug/L	20	102	70	130			
Methylene chloride		5.12	ug/L	1.0	102	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		5.36	ug/L	1.0	107	70	130			
1,1,2,2-Tetrachloroethane		5.04	ug/L	1.0	101	70	130			
Tetrachloroethene		5.08	ug/L	1.0	102	70	130			
Toluene		4.32	ug/L	1.0	86	70	130			
1,1,1-Trichloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2-Trichloroethane		5.36	ug/L	1.0	107	70	130			
Trichloroethene		4.96	ug/L	1.0	99	70	130			
Trichlorofluoromethane		4.64	ug/L	1.0	93	70	130			
1,2,3-Trichloropropane		4.16	ug/L	1.0	83	70	130			
Vinyl acetate		7.16	ug/L	1.0	143	70	130			S
Vinyl chloride		5.92	ug/L	1.0	118	70	130			
m+p-Xylenes		10.6	ug/L	1.0	106	70	130			
o-Xylene		5.32	ug/L	1.0	106	70	130			
Xylenes, Total		16.0	ug/L	1.0	106	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	103	70	130			
Surr: Dibromofluoromethane				1.0	92	70	130			
Surr: p-Bromofluorobenzene				1.0	91	70	130			
Surr: Toluene-d8				1.0	85	70	130			
Sample ID: MB052611A	54	Method Blank				Run: 1SATURN_110526A				05/26/11 12:00
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71340
Sample ID: MB052611A										05/26/11 12:00
54 Method Blank										Run: 1SATURN_110526A
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R71387
Sample ID: CCV052711A										05/27/11 12:40
53 Continuing Calibration Verification Standard										
Acetone		62.0	ug/L	20	124	70	130			
Acrylonitrile		60.4	ug/L	20	121	70	130			
Benzene		5.60	ug/L	1.0	112	70	130			
Bromochloromethane		5.12	ug/L	1.0	102	70	130			
Bromodichloromethane		5.40	ug/L	1.0	108	70	130			
Bromoform		5.44	ug/L	1.0	109	70	130			
Bromomethane		4.72	ug/L	1.0	94	70	130			
Carbon disulfide		5.64	ug/L	1.0	113	70	130			
Carbon tetrachloride		5.00	ug/L	1.0	100	70	130			
Chlorobenzene		5.60	ug/L	1.0	112	70	130			
Chlorodibromomethane		5.00	ug/L	1.0	100	70	130			
Chloroethane		5.28	ug/L	1.0	106	70	130			
Chloroform		5.08	ug/L	1.0	102	80	120			
Chloromethane		5.20	ug/L	1.0	104	70	130			
1,2-Dibromo-3-chloropropane		5.44	ug/L	1.0	109	70	130			
1,2-Dibromoethane		4.80	ug/L	1.0	96	70	130			
Dibromomethane		5.40	ug/L	1.0	108	70	130			
1,2-Dichlorobenzene		5.68	ug/L	1.0	114	70	130			
1,4-Dichlorobenzene		5.40	ug/L	1.0	108	70	130			
trans-1,4-Dichloro-2-butene		5.40	ug/L	1.0	108	70	130			
Dichlorodifluoromethane		6.28	ug/L	1.0	126	70	130			
1,1-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,2-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,1-Dichloroethene		5.72	ug/L	1.0	114	80	120			
cis-1,2-Dichloroethene		5.68	ug/L	1.0	114	70	130			
trans-1,2-Dichloroethene		5.60	ug/L	1.0	112	70	130			
1,2-Dichloropropane		5.96	ug/L	1.0	119	80	120			
cis-1,3-Dichloropropene		5.76	ug/L	1.0	115	70	130			
trans-1,3-Dichloropropene		5.68	ug/L	1.0	114	70	130			
Ethylbenzene		5.72	ug/L	1.0	114	80	120			
2-Hexanone		57.6	ug/L	20	115	70	130			
Iodomethane		6.16	ug/L	1.0	123	70	130			
Methyl ethyl ketone		57.2	ug/L	20	114	70	130			
Methyl isobutyl ketone		55.2	ug/L	20	110	70	130			
Methylene chloride		5.72	ug/L	1.0	114	70	130			
Styrene		5.52	ug/L	1.0	110	70	130			
1,1,1,2-Tetrachloroethane		5.40	ug/L	1.0	108	70	130			
1,1,2,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
Tetrachloroethene		5.60	ug/L	1.0	112	70	130			
Toluene		5.60	ug/L	1.0	112	80	120			
1,1,1-Trichloroethane		5.72	ug/L	1.0	114	70	130			
1,1,2-Trichloroethane		5.80	ug/L	1.0	116	70	130			
Trichloroethene		5.28	ug/L	1.0	106	70	130			
Trichlorofluoromethane		5.04	ug/L	1.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R71387
Sample ID: CCV052711A										05/27/11 12:40
53 Continuing Calibration Verification Standard										
1,2,3-Trichloropropane		5.72	ug/L	1.0	114	70	130			
Vinyl chloride		5.88	ug/L	1.0	118	80	120			
m+p-Xylenes		11.8	ug/L	1.0	118	70	130			
o-Xylene		6.08	ug/L	1.0	122	70	130			
Xylenes, Total		17.9	ug/L	1.0	119	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	99	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			
Surr: p-Bromofluorobenzene				1.0	88	70	130			
Surr: Toluene-d8				1.0	84	70	130			
Method: SW8260B										Batch: R71387
Sample ID: LCS052711C										05/27/11 14:48
53 Laboratory Control Sample										
Run: 1SATURN_110527A										
Acetone		55.2	ug/L	20	110	70	130			
Acrylonitrile		59.2	ug/L	20	118	70	130			
Benzene		5.32	ug/L	1.0	106	70	130			
Bromochloromethane		4.84	ug/L	1.0	97	70	130			
Bromodichloromethane		5.16	ug/L	1.0	103	70	130			
Bromoform		5.24	ug/L	1.0	105	70	130			
Bromomethane		4.64	ug/L	1.0	93	70	130			
Carbon disulfide		5.32	ug/L	1.0	106	70	130			
Carbon tetrachloride		4.48	ug/L	1.0	90	70	130			
Chlorobenzene		5.52	ug/L	1.0	110	70	130			
Chlorodibromomethane		4.76	ug/L	1.0	95	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		5.04	ug/L	1.0	101	70	130			
Chloromethane		5.68	ug/L	1.0	114	70	130			
1,2-Dibromo-3-chloropropane		5.68	ug/L	1.0	114	70	130			
1,2-Dibromoethane		4.64	ug/L	1.0	93	70	130			
Dibromomethane		5.16	ug/L	1.0	103	70	130			
1,2-Dichlorobenzene		5.44	ug/L	1.0	109	70	130			
1,4-Dichlorobenzene		5.12	ug/L	1.0	102	70	130			
trans-1,4-Dichloro-2-butene		5.08	ug/L	1.0	102	70	130			
Dichlorodifluoromethane		6.48	ug/L	1.0	130	70	130			
1,1-Dichloroethane		5.36	ug/L	1.0	107	70	130			
1,2-Dichloroethane		5.72	ug/L	1.0	114	70	130			
1,1-Dichloroethene		4.84	ug/L	1.0	97	70	130			
cis-1,2-Dichloroethene		5.24	ug/L	1.0	105	70	130			
trans-1,2-Dichloroethene		4.80	ug/L	1.0	96	70	130			
1,2-Dichloropropane		5.68	ug/L	1.0	114	70	130			
cis-1,3-Dichloropropene		5.40	ug/L	1.0	108	70	130			
trans-1,3-Dichloropropene		5.44	ug/L	1.0	109	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		48.8	ug/L	20	98	70	130			
Iodomethane		5.04	ug/L	1.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: LCS052711C	53	Laboratory Control Sample				Run: 1SATURN_110527A				05/27/11 14:48
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		52.0	ug/L	20	104	70	130			
Methylene chloride		5.24	ug/L	1.0	105	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		5.04	ug/L	1.0	101	70	130			
1,1,2,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
Tetrachloroethene		5.08	ug/L	1.0	102	70	130			
Toluene		4.56	ug/L	1.0	91	70	130			
1,1,1-Trichloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2-Trichloroethane		5.72	ug/L	1.0	114	70	130			
Trichloroethene		5.16	ug/L	1.0	103	70	130			
Trichlorofluoromethane		4.36	ug/L	1.0	87	70	130			
1,2,3-Trichloropropane		5.52	ug/L	1.0	110	70	130			
Vinyl chloride		5.88	ug/L	1.0	118	70	130			
m+p-Xylenes		11.1	ug/L	1.0	111	70	130			
o-Xylene		5.48	ug/L	1.0	110	70	130			
Xylenes, Total		16.6	ug/L	1.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	102	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			
Sample ID: H11050365-001DMS	53	Sample Matrix Spike				Run: 1SATURN_110527A				05/27/11 15:25
Acetone		122	ug/L	40	122	70	130			
Acrylonitrile		107	ug/L	40	107	70	130			
Benzene		10.6	ug/L	2.0	106	70	130			
Bromochloromethane		10.2	ug/L	2.0	102	70	130			
Bromodichloromethane		10.2	ug/L	2.0	102	70	130			
Bromoform		10.4	ug/L	2.0	104	70	130			
Bromomethane		10.6	ug/L	2.0	106	70	130			
Carbon disulfide		10.0	ug/L	2.0	100	70	130			
Carbon tetrachloride		8.96	ug/L	2.0	90	70	130			
Chlorobenzene		10.8	ug/L	2.0	108	70	130			
Chlorodibromomethane		9.60	ug/L	2.0	96	70	130			
Chloroethane		13.3	ug/L	2.0	133	70	130			S
Chloroform		10.3	ug/L	2.0	103	70	130			
Chloromethane		11.4	ug/L	2.0	114	70	130			
1,2-Dibromo-3-chloropropane		11.1	ug/L	2.0	111	70	130			
1,2-Dibromoethane		8.96	ug/L	2.0	90	70	130			
Dibromomethane		10.6	ug/L	2.0	106	70	130			
1,2-Dichlorobenzene		11.1	ug/L	2.0	111	70	130			
1,4-Dichlorobenzene		10.4	ug/L	2.0	104	70	130			
trans-1,4-Dichloro-2-butene		9.92	ug/L	2.0	99	70	130			
Dichlorodifluoromethane		13.6	ug/L	2.0	131	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Batch: R71387										
Sample ID: H11050365-001DMS	53	Sample Matrix Spike		Run: 1SATURN_110527A			05/27/11 15:25			
1,1-Dichloroethane		10.3	ug/L	2.0	103	70	130			
1,2-Dichloroethane		11.7	ug/L	2.0	117	70	130			
1,1-Dichloroethene		9.28	ug/L	2.0	93	70	130			
cis-1,2-Dichloroethene		28.4	ug/L	2.0	107	70	130			
trans-1,2-Dichloroethene		10.0	ug/L	2.0	100	70	130			
1,2-Dichloropropane		12.0	ug/L	2.0	120	70	130			
cis-1,3-Dichloropropene		10.6	ug/L	2.0	106	70	130			
trans-1,3-Dichloropropene		10.7	ug/L	2.0	107	70	130			
Ethylbenzene		10.5	ug/L	2.0	105	70	130			
2-Hexanone		106	ug/L	40	106	70	130			
Iodomethane		9.68	ug/L	2.0	97	70	130			
Methyl ethyl ketone		128	ug/L	40	128	70	130			
Methyl isobutyl ketone		109	ug/L	40	109	70	130			
Methylene chloride		10.3	ug/L	2.0	103	70	130			
Styrene		10.4	ug/L	2.0	104	70	130			
1,1,1,2-Tetrachloroethane		10.4	ug/L	2.0	104	70	130			
1,1,2,2-Tetrachloroethane		9.92	ug/L	2.0	99	70	130			
Tetrachloroethene		11.0	ug/L	2.0	100	70	130			
Toluene		9.04	ug/L	2.0	90	70	130			
1,1,1-Trichloroethane		10.0	ug/L	2.0	100	70	130			
1,1,2-Trichloroethane		11.6	ug/L	2.0	116	70	130			
Trichloroethene		10.1	ug/L	2.0	96	70	130			
Trichlorofluoromethane		8.56	ug/L	2.0	86	70	130			
1,2,3-Trichloropropane		10.0	ug/L	2.0	100	70	130			
Vinyl chloride		11.4	ug/L	2.0	114	70	130			
m+p-Xylenes		21.8	ug/L	2.0	109	70	130			
o-Xylene		11.4	ug/L	2.0	114	70	130			
Xylenes, Total		33.2	ug/L	2.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	109	70	130			
Surr: Dibromofluoromethane				2.0	96	70	130			
Surr: p-Bromofluorobenzene				2.0	94	70	130			
Surr: Toluene-d8				2.0	83	70	130			
Sample ID: H11050365-001DMSD										
53 Sample Matrix Spike Duplicate										
Run: 1SATURN_110527A										
05/27/11 15:56										
Acetone		117	ug/L	40	117	70	130	4.7	20	
Acrylonitrile		110	ug/L	40	110	70	130	2.9	20	
Benzene		10.4	ug/L	2.0	104	70	130	1.5	20	
Bromochloromethane		9.52	ug/L	2.0	95	70	130	6.5	20	
Bromodichloromethane		9.76	ug/L	2.0	98	70	130	4.8	20	
Bromoform		10.1	ug/L	2.0	101	70	130	3.1	20	
Bromomethane		10.2	ug/L	2.0	102	70	130	3.9	20	
Carbon disulfide		10.5	ug/L	2.0	105	70	130	4.7	20	
Carbon tetrachloride		9.04	ug/L	2.0	90	70	130	0.9	20	
Chlorobenzene		10.4	ug/L	2.0	104	70	130	3.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: H11050365-001DMSD										05/27/11 15:56
53 Sample Matrix Spike Duplicate										Run: 1SATURN_110527A
Chlorodibromomethane		9.52	ug/L	2.0	95	70	130	0.8	20	
Chloroethane		12.2	ug/L	2.0	122	70	130	8.2	20	
Chloroform		9.68	ug/L	2.0	97	70	130	6.4	20	
Chloromethane		10.4	ug/L	2.0	104	70	130	8.8	20	
1,2-Dibromo-3-chloropropane		10.2	ug/L	2.0	102	70	130	8.2	20	
1,2-Dibromoethane		8.96	ug/L	2.0	90	70	130	0.0	20	
Dibromomethane		9.92	ug/L	2.0	99	70	130	7.0	20	
1,2-Dichlorobenzene		10.6	ug/L	2.0	106	70	130	4.4	20	
1,4-Dichlorobenzene		10.2	ug/L	2.0	102	70	130	2.3	20	
trans-1,4-Dichloro-2-butene		10.4	ug/L	2.0	104	70	130	4.7	20	
Dichlorodifluoromethane		13.0	ug/L	2.0	124	70	130	4.8	20	
1,1-Dichloroethane		10.0	ug/L	2.0	100	70	130	3.1	20	
1,2-Dichloroethane		11.3	ug/L	2.0	113	70	130	3.5	20	
1,1-Dichloroethene		8.96	ug/L	2.0	90	70	130	3.5	20	
cis-1,2-Dichloroethene		28.1	ug/L	2.0	104	70	130	1.1	20	
trans-1,2-Dichloroethene		9.68	ug/L	2.0	97	70	130	3.3	20	
1,2-Dichloropropane		10.9	ug/L	2.0	109	70	130	9.8	20	
cis-1,3-Dichloropropene		10.2	ug/L	2.0	102	70	130	3.8	20	
trans-1,3-Dichloropropene		10.6	ug/L	2.0	106	70	130	1.5	20	
Ethylbenzene		10.3	ug/L	2.0	103	70	130	1.5	20	
2-Hexanone		102	ug/L	40	102	70	130	3.1	20	
Iodomethane		10.0	ug/L	2.0	100	70	130	3.3	20	
Methyl ethyl ketone		120	ug/L	40	120	70	130	6.5	20	
Methyl isobutyl ketone		107	ug/L	40	107	70	130	1.5	20	
Methylene chloride		9.84	ug/L	2.0	98	70	130	4.8	20	
Styrene		9.92	ug/L	2.0	99	70	130	4.7	20	
1,1,1,2-Tetrachloroethane		11.3	ug/L	2.0	113	70	130	8.1	20	
1,1,2,2-Tetrachloroethane		10.3	ug/L	2.0	103	70	130	4.0	20	
Tetrachloroethene		10.6	ug/L	2.0	96	70	130	3.7	20	
Toluene		8.96	ug/L	2.0	90	70	130	0.9	20	
1,1,1-Trichloroethane		9.76	ug/L	2.0	98	70	130	2.4	20	
1,1,2-Trichloroethane		11.0	ug/L	2.0	110	70	130	5.7	20	
Trichloroethene		9.76	ug/L	2.0	93	70	130	3.2	20	
Trichlorofluoromethane		8.40	ug/L	2.0	84	70	130	1.9	20	
1,2,3-Trichloropropane		10.1	ug/L	2.0	101	70	130	0.8	20	
Vinyl chloride		11.4	ug/L	2.0	114	70	130	0.0	20	
m+p-Xylenes		20.5	ug/L	2.0	102	70	130	6.1	20	
o-Xylene		11.0	ug/L	2.0	110	70	130	3.6	20	
Xylenes, Total		31.5	ug/L	2.0	105	70	130	5.2	20	
Surr: 1,2-Dichloroethane-d4				2.0	102	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	94	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	98	70	130	0.0	20	
Surr: Toluene-d8				2.0	84	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: MB052711A	53	Method Blank					Run: 1SATURN_110527A			05/27/11 16:57
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: MB052711A										05/27/11 16:57
53 Method Blank										Run: 1SATURN_110527A
1,2,3-Trichloropropane		ND	ug/L		1.0					
Vinyl chloride		ND	ug/L		1.0					
m+p-Xylenes		ND	ug/L		1.0					
o-Xylene		ND	ug/L		1.0					
Xylenes, Total		ND	ug/L		1.0					
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
-Surr: Toluene-d8				1.0	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: CCV060111A 5 Continuing Calibration Verification Standard										
Analytical Run: R71461										
06/01/11 10:02										
Vinyl acetate		5.36	ug/L	1.0	107	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	114	70	130			
Surr: Dibromofluoromethane				1.0	108	70	130			
Surr: p-Bromofluorobenzene				1.0	102	70	130			
Surr: Toluene-d8				1.0	96	70	130			
Method: SW8260B										
Sample ID: LCS060111A 5 Laboratory Control Sample										
Run: 1SATURN_110601A										
Batch: R71461										
06/01/11 11:15										
Vinyl acetate		6.48	ug/L	1.0	130	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	112	70	130			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	92	70	130			
Sample ID: MB060111A 5 Method Blank										
Run: 1SATURN_110601A										
06/01/11 12:31										
Vinyl acetate		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	113	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	102	70	130			
Surr: Toluene-d8				1.0	94	70	130			
Sample ID: LCS052711C 5 Laboratory Control Sample										
Run: 1SATURN_110601A										
05/27/11 14:48										
Vinyl acetate		7.60	ug/L	1.0	152	70	130			S
Surr: 1,2-Dichloroethane-d4				1.0	102	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			
Sample ID: H11050365-001DMS 5 Sample Matrix Spike										
Run: 1SATURN_110601A										
05/27/11 15:25										
Vinyl acetate		15.5	ug/L	2.0	155	70	130			S
Surr: 1,2-Dichloroethane-d4				2.0	109	70	130			
Surr: Dibromofluoromethane				2.0	96	70	130			
Surr: p-Bromofluorobenzene				2.0	94	70	130			
Surr: Toluene-d8				2.0	83	70	130			
Sample ID: H11050365-001DMSD 5 Sample Matrix Spike Duplicate										
Run: 1SATURN_110601A										
05/27/11 15:56										
Vinyl acetate		15.2	ug/L	2.0	152	70	130	2.1	20	S
Surr: 1,2-Dichloroethane-d4				2.0	102	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	94	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	98	70	130	0.0	20	
Surr: Toluene-d8				2.0	84	70	130	0.0	20	
Sample ID: MB052711A 5 Method Blank										
Run: 1SATURN_110601A										
05/27/11 16:57										
Vinyl acetate		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW8260B										Batch: R71461	
Sample ID: MB052711A	5	Method Blank			Run: 1SATURN_110601A						05/27/11 16:57
Surr: p-Bromofluorobenzene	101	92	ug/L	1.0	92	70	130				
Surr: Toluene-d8	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
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	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
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	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
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	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
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	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				
	101	92	ug/L	1.0	92	70	130				
	101	85	ug/L	1.0	85	70	130				

Workorder Receipt Checklist



H11050365

 Login completed by: Esther L. Merritt
 Reviewed by: BL2000/wjohnson
 Reviewed Date: 6/7/2011

Date Received: 5/25/2011

Received by: elm

 Carrier Hand Del
 name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	5.0°C On Ice		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

ANALYTICAL SUMMARY REPORT
RECEIVED

JAN 11 1961

APPENDIX D: LABORATORY ANALYTICAL REPORT



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

ANALYTICAL SUMMARY REPORT RECEIVED

June 09, 2011

JUN 17 2011

MT DEQ-Waste and Tank
PO Box 200901
Helena, MT 89620-0901

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Workorder No.: H11050365

Project Name: Mister M Landfill

Energy Laboratories Inc Helena MT received the following 7 samples for MT DEQ-Waste and Tank on 5/25/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H11050365-001	M-M-MW-9R	05/23/11 17:10	05/25/11	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11050365-002	M-M-MW-9R-Dup	05/23/11 17:15	05/25/11	Aqueous	Same As Above
H11050365-003	M-M-MW-DW	05/24/11 10:35	05/25/11	Aqueous	Same As Above
H11050365-004	M-M-MW-11	05/24/11 15:25	05/25/11	Aqueous	Same As Above
H11050365-005	M-M-MW-HW	05/24/11 17:00	05/25/11	Aqueous	Same As Above
H11050365-006	M-M-MW-12	05/24/11 12:20	05/25/11	Aqueous	Same As Above
H11050365-007	TB 04/28/11 EM HCL1618 011011-3	05/23/11 17:10	05/25/11	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

This report was prepared by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Wanda Johnson
Login Supervisor

Digitally signed by
Wanda Johnson
Date: 2011.06.16 07:57:59 -06:00

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-001
Client Sample ID M-M-MW-9R

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.2	s.u.		0.1		A4500-H B	05/26/11 10:02 / cmm
Conductivity	882	umhos/cm		1		A2510 B	05/26/11 10:00 / cmm
INORGANICS							
Chloride	25	mg/L		1		E300.0	05/27/11 16:58 / zeg
Sulfate	36	mg/L		1		E300.0	05/27/11 16:58 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.52	mg/L		0.05		E353.2	05/26/11 14:55 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:29 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:29 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:29 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 13:29 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:29 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-001
Client Sample ID: M-M-MW-9R

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Dichlorodifluoromethane	0.54	ug/L	J	1.0		SW8260B	05/26/11 15:03 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Tetrachloroethene	1.1	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Trichloroethene	0.43	ug/L	J	1.0		SW8260B	05/26/11 15:03 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 20:07 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Surr: 1,2-Dichloroethane-d4	102	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: p-Bromofluorobenzene	88.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: Toluene-d8	81.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-002
Client Sample ID: M-M-MW-9R-Dup

Report Date: 06/09/11
Collection Date: 05/23/11 17:15
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.2	s.u.		0.1		A4500-H B	05/26/11 10:06 / cmm
Conductivity	892	umhos/cm		1		A2510 B	05/26/11 10:03 / cmm
INORGANICS							
Chloride	25	mg/L		1		E300.0	05/27/11 17:09 / zeg
Sulfate	36	mg/L		1		E300.0	05/27/11 17:09 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.52	mg/L		0.05		E353.2	05/26/11 14:57 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:34 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:34 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:34 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 13:34 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:34 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-002
Client Sample ID: M-M-MW-9R-Dup

Report Date: 06/09/11
Collection Date: 05/23/11 17:15
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Dichlorodifluoromethane	0.52	ug/L	J	1.0		SW8260B	05/26/11 15:33 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Tetrachloroethene	1.2	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Trichloroethene	0.43	ug/L	J	1.0		SW8260B	05/26/11 15:33 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 20:38 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Surr: 1,2-Dichloroethane-d4	101	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: Dibromofluoromethane	93.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: p-Bromofluorobenzene	88.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: Toluene-d8	86.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-003
Client Sample ID M-M-MW-DW OW

Report Date: 06/09/11
Collection Date: 05/24/11 10:35
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	05/26/11 10:19 / cmm
Conductivity	739	umhos/cm		1		A2510 B	05/26/11 10:05 / cmm
INORGANICS							
Chloride	54	mg/L		1		E300.0	05/27/11 17:21 / zeg
Sulfate	17	mg/L		1		E300.0	05/27/11 17:21 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 14:58 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:38 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:38 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:38 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Iron	0.86	mg/L		0.03		E200.8	05/26/11 13:38 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:38 / dck
Zinc	1.28	mg/L		0.01		E200.8	05/26/11 13:38 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Benzene	1.2	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromochloromethane	0.45	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb

**Report
Definitions:**

RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-003
Client Sample ID: M-M-MW-DW QW

Report Date: 06/09/11
Collection Date: 05/24/11 10:35
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	0.20	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichloroethane	0.17	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
cis-1,2-Dichloroethene	30	ug/L		5.0		SW8260B	05/27/11 18:28 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Ethylbenzene	1.6	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Methyl ethyl ketone	17	ug/L	J	20		SW8260B	05/26/11 14:32 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Styrene	1.9	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Trichloroethene	0.23	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 19:07 / abb
Vinyl chloride	0.76	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
o-Xylene	0.42	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Xylenes, Total	0.42	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Surr: 1,2-Dichloroethane-d4	114	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: Dibromofluoromethane	86.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: Toluene-d8	85.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-004
Client Sample ID: M-M-MW-11

Report Date: 06/09/11
Collection Date: 05/24/11 15:25
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	05/26/11 10:15 / cmm
Conductivity	612	umhos/cm		1		A2510 B	05/26/11 10:07 / cmm
INORGANICS							
Chloride	3	mg/L		1		E300.0	05/27/11 17:33 / zeg
Sulfate	38	mg/L		1		E300.0	05/27/11 17:33 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 14:59 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:42 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:42 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:42 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Iron	0.18	mg/L		0.03		E200.8	05/26/11 13:42 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:42 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-004
Client Sample ID: M-M-MW-11

Report Date: 06/09/11
Collection Date: 05/24/11 15:25
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 19:37 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
m-p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Surr: 1,2-Dichloroethane-d4	106	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: Toluene-d8	84.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-005
Client Sample ID: M-M-MW-HW

Report Date: 06/09/11
Collection Date: 05/24/11 17:00
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	05/26/11 10:23 / cmm
Conductivity	749	umhos/cm		1		A2510 B	05/26/11 10:08 / cmm
INORGANICS							
Chloride	9	mg/L		1		E300.0	05/27/11 17:44 / zeg
Sulfate	28	mg/L		1		E300.0	05/27/11 17:44 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.13	mg/L		0.05		E353.2	05/26/11 15:03 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 14:04 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 14:04 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 14:04 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 14:04 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 14:04 / dck
Zinc	0.03	mg/L		0.01		E200.8	05/26/11 14:04 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-005
Client Sample ID M-M-MW-HW

Report Date: 06/09/11
Collection Date: 05/24/11 17:00
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 18:06 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: Dibromofluoromethane	89.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: p-Bromofluorobenzene	92.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: Toluene-d8	88.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-006
Client Sample ID: M-M-MW-12

Report Date: 06/09/11
Collection Date: 05/24/11 12:20
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.4	s.u.		0.1		A4500-H B	05/26/11 10:26 / cmm
Conductivity	668	umhos/cm		1		A2510 B	05/26/11 10:09 / cmm
INORGANICS							
Chloride	5	mg/L		1		E300.0	05/27/11 18:19 / zeg
Sulfate	31	mg/L		1		E300.0	05/27/11 18:19 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 15:04 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 14:09 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 14:09 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 14:09 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Iron	0.53	mg/L		0.03		E200.8	05/26/11 14:09 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 14:09 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Carbon disulfide	0.14	ug/L	J	1.0		SW8260B	05/27/11 20:30 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-006
Client Sample ID M-M-MW-12

Report Date: 06/09/11
Collection Date: 05/24/11 12:20
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
cis-1,2-Dichloroethene	0.80	ug/L	J	1.0		SW8260B	05/27/11 20:30 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 18:36 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Surr: 1,2-Dichloroethane-d4	108	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: Dibromofluoromethane	92.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: Toluene-d8	83.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

APPENDIX E: HISTORICAL GROUNDWATER QUALITY

APPENDIX E: HISTORICAL GROUNDWATER QUALITY

Well	Date	General Chemistry (mg/l)							Metals (mg/l)																
		pH (std units)	SC (umhos/cm)	Chloride	Sulfate	Nitrate + Nitrite	COD	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-1	8/10/93	7.5	544	16	75	0.77	27			<0.005	0.1		<0.001	<0.01			<0.03	<0.01	<0.001		<0.005	<0.005			
	12/8/95																								
	3/30/96	7.2	789	19	34	0.53	1	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	0.08	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.02
	11/21/03	7.6	684	13	28			<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.3	716	9	30	1.62	8	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	11/10/06	7.6	775	13	25	2.42	6	<0.005	<0.01	<0.005	0.29	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
	6/28/07	7.5	7.81	19	24	1.49	10	<0.005	<0.01	<0.005	0.24	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
	1/22/09	7.5	805	19	23	1.90	5		<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
MW-2	8/10/93	6.9	823	47	52	<0.05	57			<0.005	0.2		<0.001	<0.01			<0.03	<0.01	<0.001		<0.005	<0.005			
	6/28/07	7.3	946	54	60	0.21	13	<0.005	<0.01	<0.005	0.14	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-4	8/10/93	7.8	721	28	51	0.43	40			<0.005	0.2		0.003	<0.01			<0.01	0.03	<0.001		<0.005	<0.005			
	11/21/03	7.8	670	16	59	2.81	22	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
MW-5	11/21/03	7.7	718	5	68	2.72	38	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.054	<0.005	<0.1	<0.1	<0.01
	8/19/04	7.9	926	10	100	2.81	2	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.055	<0.005	<0.1	<0.1	0.02
	11/30/05	7.4	841	11	46	1.96	100	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.058	<0.005	<0.1	<0.1	<0.01
	11/9/06	7.6	969	5	43	2.66	4	<0.005	<0.01	<0.005	0.11	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.184	<0.0002	<0.01	<0.05	<0.01
	6/27/07	7.7	937	7	50	1.89	22	<0.005	<0.01	<0.005	0.11	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.124	<0.0002	<0.01	<0.05	<0.01
	12/19/07	7.6	880	9	49	1.70	4																		
	6/3/09	7.6	1020	14	55	2.12	7	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.111	<0.005	<0.1	<0.1	<0.01
MW-6	6/27/07	7.6	1040	5	56	0.18	6	<0.005	<0.01	<0.005	0.15	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-6M	8/20/04	7.9	388	4	20	1.68	2	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.06
MW-7	12/8/95																								
	3/30/96	6.8	942	34	40	<0.05	<1	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	0.28	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.10	0.02
MW-7R	6/28/07	7.3	1350	80	157	2.10	14	<0.005	<0.01	<0.005	0.05	<0.001	<0.0005	<0.002	<0.005	0.002	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-8	11/21/03	7.3	743	17	38	1.03	120	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.4	746	10	50	2.64	8	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.08
MW-9	12/8/95																								
	3/30/96	7.4	734	13	26	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	0.001	<0.01	<0.01	<0.01	0.05	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.03
MW-9R	10/24/97	7.7	814	14	99	4.74	6	<0.005	<0.05	<0.005	<0.1	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
	8/20/04	7.6	760	10	90	5.58	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	6/2/09	7.5	952	24	75	3.47	7	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	10/27/09	8.0	922	14	82	4.04	4	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	10/26/10	8.1	896	17	68	2.95			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	5/23/11	7.2	882	25	36	1.52			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	5/23/11	7.2	892	25	36	1.52			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
MW-10	11/14/94	7.5	684	47	30	<0.05	6	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	12/29/94																								
	5/25/95	8.0	668	45	25	<0.05	11	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.05	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.06
	12/8/95	7.4	646	15	30	<0.05	10	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.08
	3/30/96	7.4	647	6	25	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.2	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.03
MW-10R	10/24/97	7.6	1100	23	111	2.01	10	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.04	<0.01	<0.001	<0.01	0.034	<0.005	<0.1	<0.1	<0.01
	6/29/98	7.5	1130	18	99	1.7	7	<0.005	0.04J	0.004J	<0.1	0.0009J	<0.001	<0.01	<0.01	<0.01	0.14	<0.01	<0.001	<0.01	0.091	<0.005	<0.1	<0.1	0.02
	11/17/98	7.5	947	19	113	2.18	12	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.093	<0.005	<0.1	<0.1	<0.01J

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Well	Date	General Chemistry (mg/l)							Metals (mg/l)																
		pH (std units)	SC (umhos/cm)	Chloride	Sulfate	Nitrate + Nitrite	COD	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-10R (cont.)	5/4/99	7.7	1070	19	104	1.85	<1	<0.005	<0.05	0.008	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.35	<0.01	<0.001	<0.01	0.101	<0.005	<0.1	<0.1	0.02
	12/3/99	7.3	1070	14	112	2.01	8	<0.005	<0.05	<0.005J	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.07	<0.01	<0.001	<0.01	0.114	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.7	970	10	100	2.39	2	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.050	<0.005	<0.1	<0.1	0.07
	1/22/09	7.8	1080	17	89	1.63	4	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.060	<0.005	<0.1	<0.1	<0.01
	6/2/09	7.7	1020	23	82	1.42	3	<0.005	<0.05	<0.005	<0.1	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.011	<0.005	<0.1	<0.1	<0.01
	10/27/09	8.0	1080	17	88	1.82	3	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.081	<0.005	<0.1	<0.1	<0.01
	10/27/09	8.2	1080	17	88	1.95	3	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.071	<0.005	<0.1	<0.1	<0.01
MW-11	10/26/10	8.2	655	3	42	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.11	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	5/24/11	7.7	612	3	38	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.18	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
MW-11M	8/20/04	7.3	1110	20	70	2.36	<1	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.08
MW-12	10/27/10	8.1	683	5	35	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.31	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	10/27/10	8.1	698	4	33	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.30	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
	5/25/11	7.4	668	5	31	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.53	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	<0.01
MW-13	10/24/97	7.9	441	<1	80	0.15	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
MW-OW	11/14/94	7.3	771	29	29	<0.05	5	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.57	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.15
	12/29/94																								
	5/25/95	7.8	721	4	33	<0.05	3	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.58	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.08
	12/8/95	7.3	718	4	37	<0.05	6	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.10	0.09
	3/30/96	7.4	732	5	29	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	1.01	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.13
	10/24/97	7.6	691	6	37	<0.05	3	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.57	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.05
	6/29/98	7.3	714	9	34	<0.05	4	<0.005	<0.05	<0.005	0.07J	<0.001	<0.001	<0.01	<0.01	<0.01	1.01	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.12
	11/17/98	7.5	757	119	15	<0.05	20	<0.005	<0.05	<0.005J	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	2.00	<0.01	<0.001	0.03	<0.005	<0.005	<0.1	<0.1	0.30
	5/4/99	7.7	687	7	34	<0.05	<1	<0.005	<0.05	<0.005	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.68	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.06
	12/2/99	7.4	675	4	36	<0.05	4	<0.005	<0.05	<0.005	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.73	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.03
	8/20/04	7.5	794	10	90	<0.05	30	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.68
	8/20/04	7.5	802	10	100	<0.05	28	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.64
	11/10/06	7.7	718	22	27	<0.02	4	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	0.31	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	0.36
	6/28/07	7.7	692	10	36	<0.01	2	<0.005	<0.01	<0.005	0.07	<0.001	<0.0005	<0.002	<0.005	<0.001	0.41	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	0.16
	12/18/07	7.5	669	47	2	<0.01	9	<0.005	<0.01	<0.005	0.09	<0.001	<0.0005	<0.002	<0.005	<0.001	3.79	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	3.17
	1/21/09	7.8	678	49	<1	<0.05	11	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	2.87	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.29
	6/1/09	7.6	654	51	<1	<0.05	9	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.47	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.48
	6/1/09	7.7	649	51	<1	<0.05	8	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.47	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.48
	6/5/09																								
	10/26/09	8.1	683	14	18	<0.05	8	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	2.38	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.04
	10/25/10	8.2	646	17	5	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.81	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.1	0.46
	5/24/11	7.8	739	54	17	<0.05			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.86	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	1.28
MW-HW	6/10/80	7.6	848	2.5	107								<0.002	0.007		0.013	0.75	<0.04		0.01		0.006		0.007	0.04
	11/14/94	7.1	815	3	100	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.14	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.04
	5/25/95	7.8	780	8	38	0.12	2	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.02
	12/8/95	7.2	786	4	75	<0.05	9	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.05
	3/30/96	7.4	796	8	29	0.44	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.005	<0.005	<0.1	<0.10	0.04
	10/24/97	7.4	779	4	83	<0.05	2	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	6/29/98	7.3	723	7	55	<0.05	4	<0.005	<0.05	<0.005	0.06J	<0.001	<0.001	<0.01	<0.01	<0.01	0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.05
	11/17/98	7.2	668	4	87	<0.05	2	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.52	<0.01	<0.001	<0.01J	<0.005	<0.005	<0.1	<0.1	0.04

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Well	Date	General Chemistry (mg/l)							Metals (mg/l)																
		pH (std units)	SC (umhos/cm)	Chloride	Sulfate	Nitrate + Nitrite	COD	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-HW (cont.)	5/4/99	7.6	755	4	87	0.15	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.25	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.04
	12/2/99	7.2	763	4	105	<0.05	4	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.34	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03
	8/20/04	7.6	705	10	40	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03
	11/29/05	7.4	676	5	78	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	11/29/05	7.4	700	6	77	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
	11/10/06	7.5	753	9	35	<0.05	<1	<0.005	<0.01	<0.005	0.06	<0.001	<0.0005	<0.002	<0.005	0.001	0.28	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	0.03
	6/28/07	7.7	756	10	36	0.17	1	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.010	<0.0002	<0.01	<0.05	<0.01
	12/18/07	7.4	756	9	36	0.01	<1	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	0.02
	1/21/09	7.5	837	8	34	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03
	6/1/09	7.5	773	10	37	0.17	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	10/26/09	8.0	795	8	36	<0.05	<1	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.1
	5/24/11	7.7	749	9	28	0.13			<0.005	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01		<0.01	<0.005	<0.005	<0.005	<0.1	0.03
Richards	6/28/07	7.9	645	5	47	<0.01	<1	<0.005	<0.01	<0.005	0.07	<0.001	<0.0005	<0.002	<0.005	<0.001	0.14	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Well	Date	VOCs (ug/l)																	
		Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene
MW-HWV (cont.)	5/4/99	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	12/2/99	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	8/20/04	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	11/29/05	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	11/29/05	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	11/10/06	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	6/28/07	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	12/18/07	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	1/21/09	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	6/1/09	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/26/09	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	5/24/11	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Richards	6/28/07			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

"J" = Estimated value.

Well	Date	VOCs (ug/l)																							
		1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl benzene	2-Hexanone	Iodomethane	Methyl ethyl ketone	Methyl isobutyl ketone	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	m+p-Xylenes	o-Xylene	Xylenes, Total
MW-HW (cont.)	5/4/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/2/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	11/29/05	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/29/05	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/10/06	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/18/07	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1/21/09	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/1/09	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/26/09	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/24/11	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Richards	6/28/07	<0.50	<0.50	<0.50	<0.50					<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Figure E-1: pH



Figure E-2: Specific Conductance



Figure E-3: Chloride



Figure E-4: Sulfate

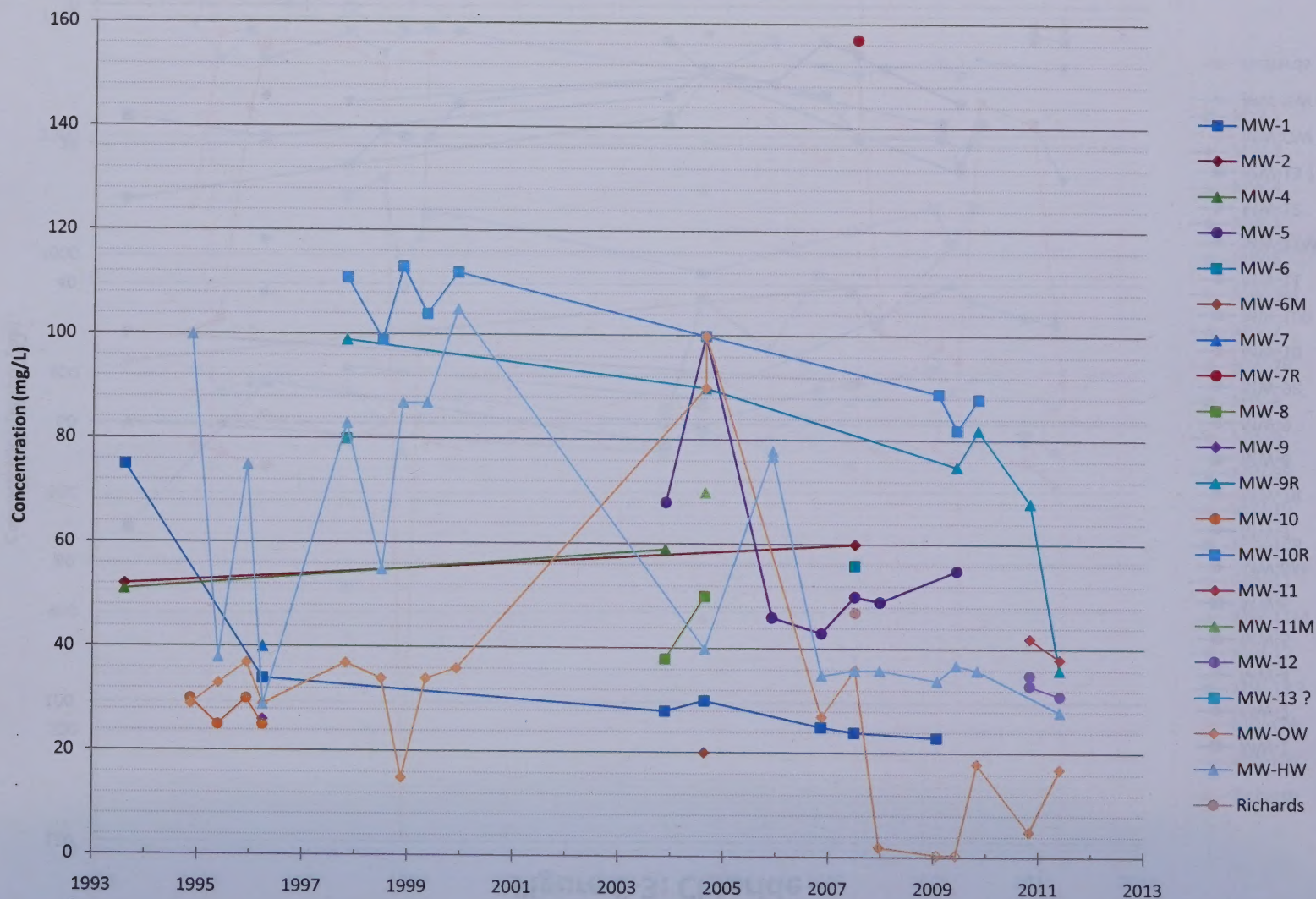




Figure E-6: Iron

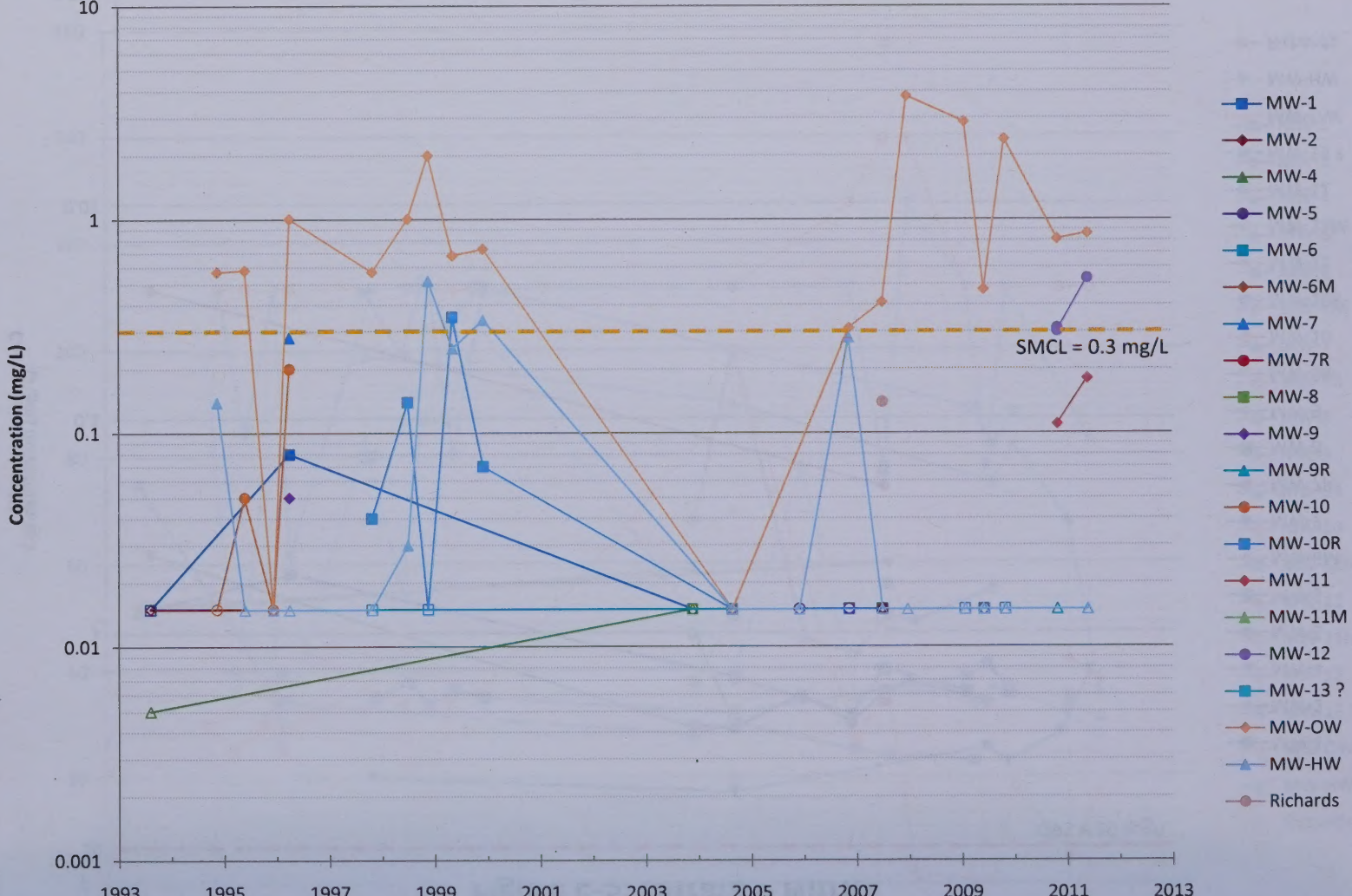


Figure E-7: Zinc

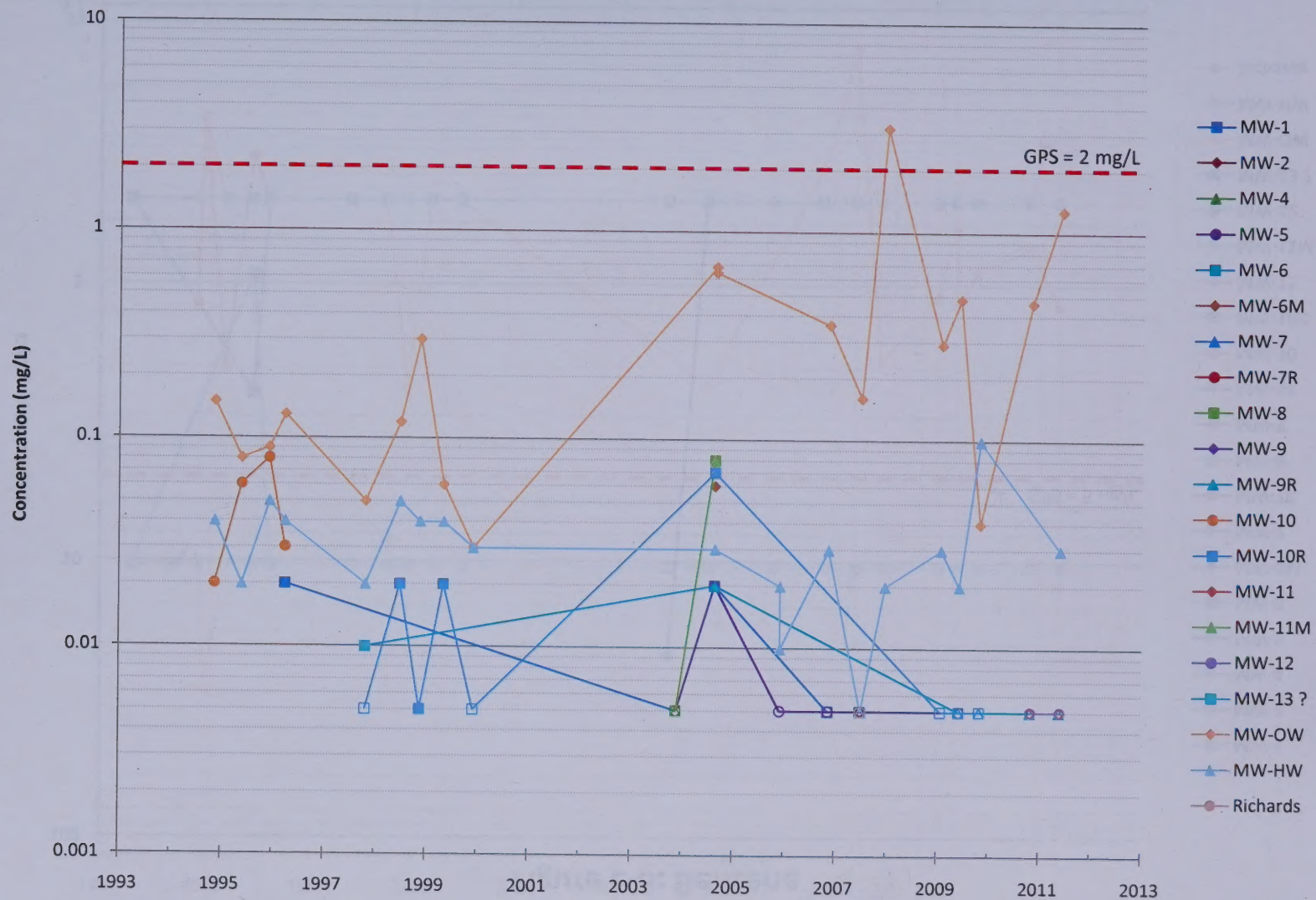


Figure E-8: Benzene

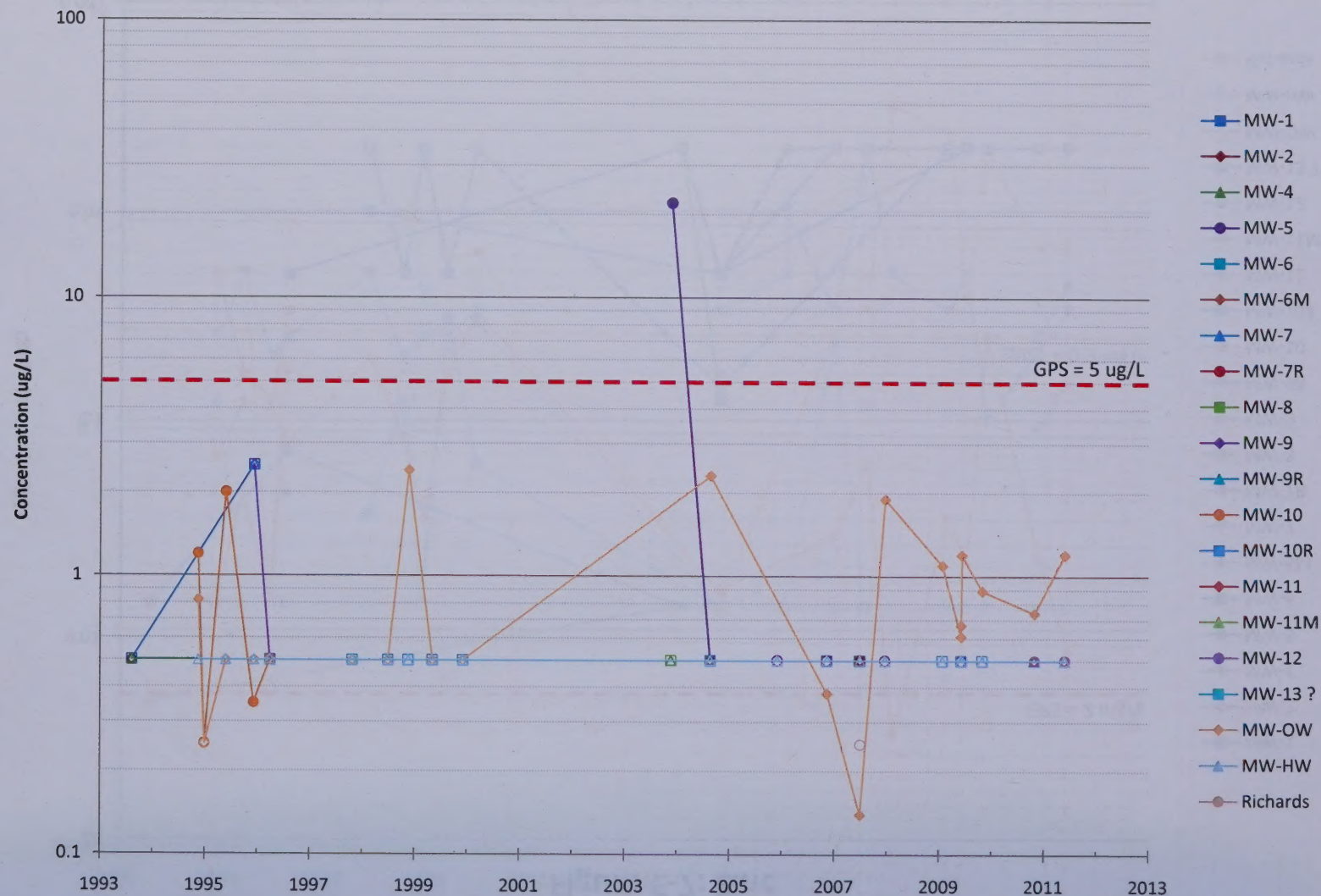


Figure E-9: Bromochloromethane

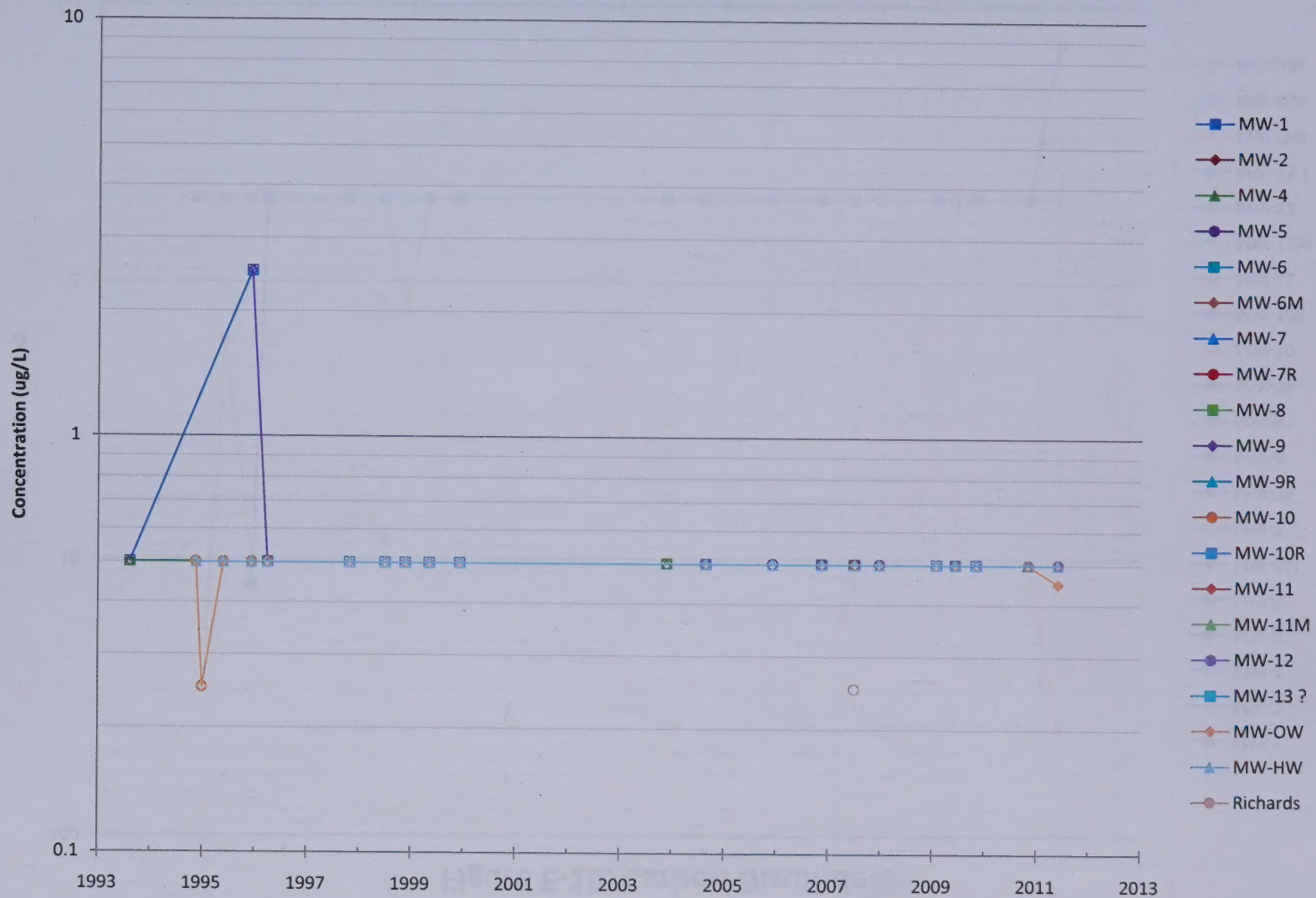




Figure E-11: Chloromethane

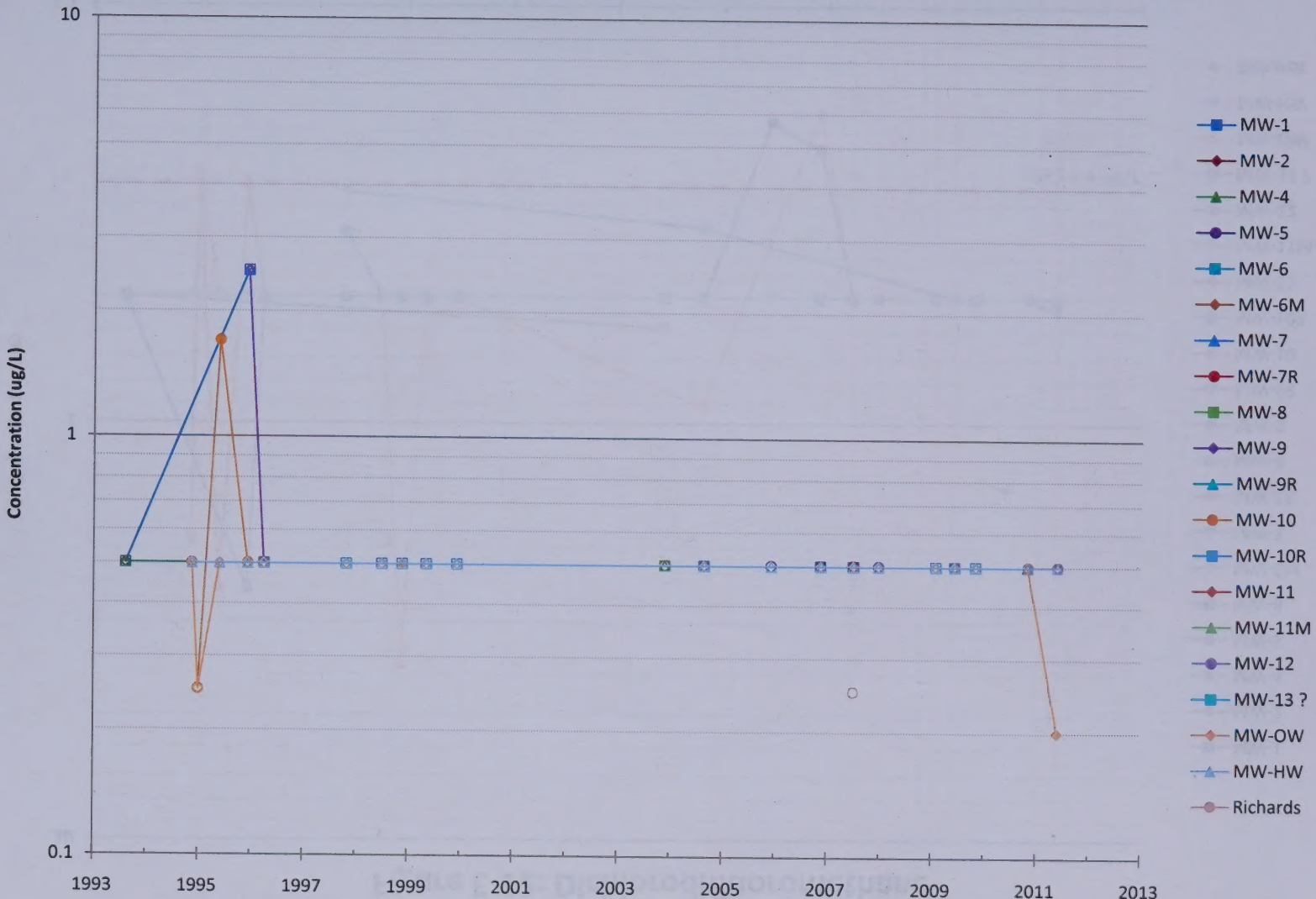




Figure E-13: 1,2-Dichloroethane

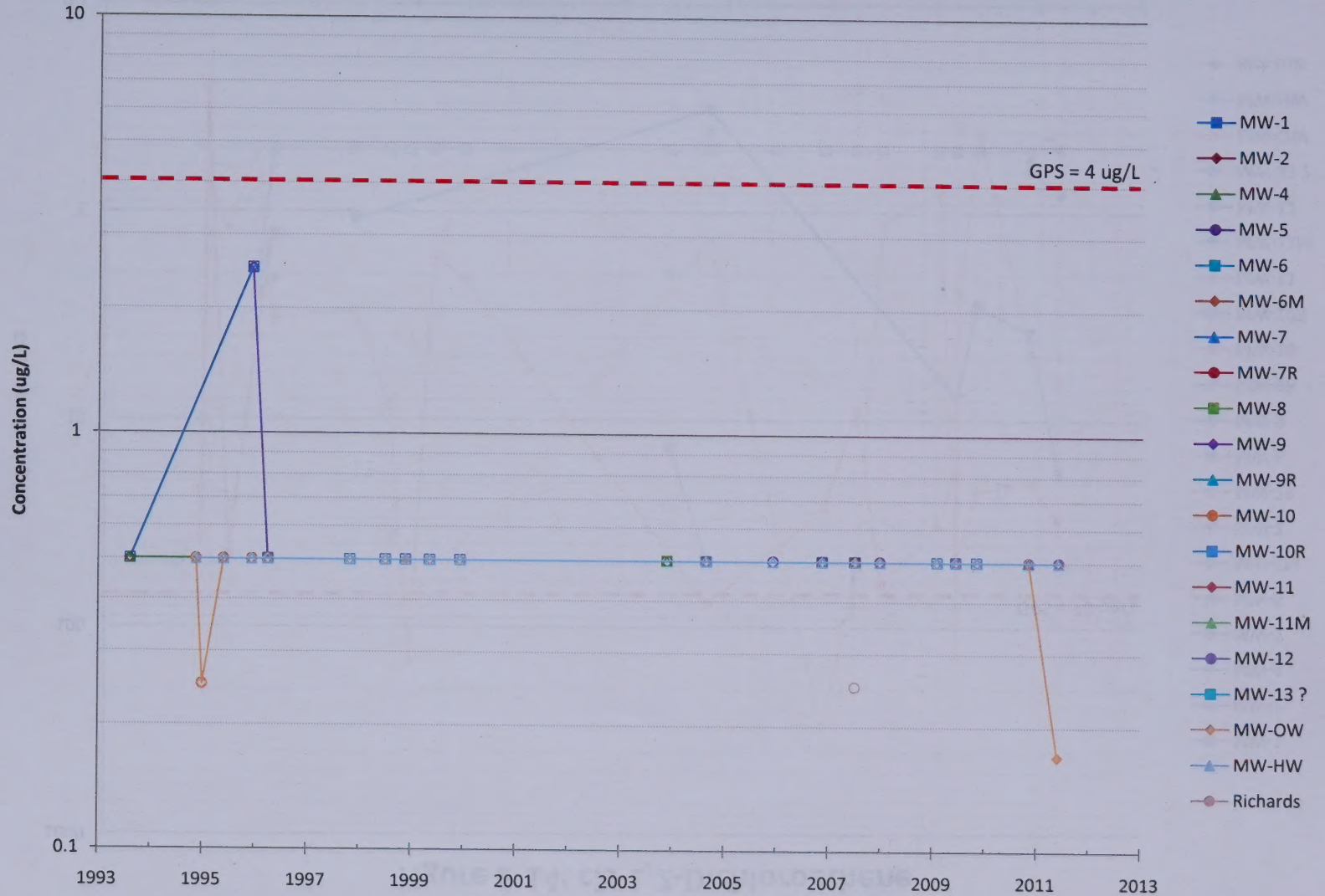
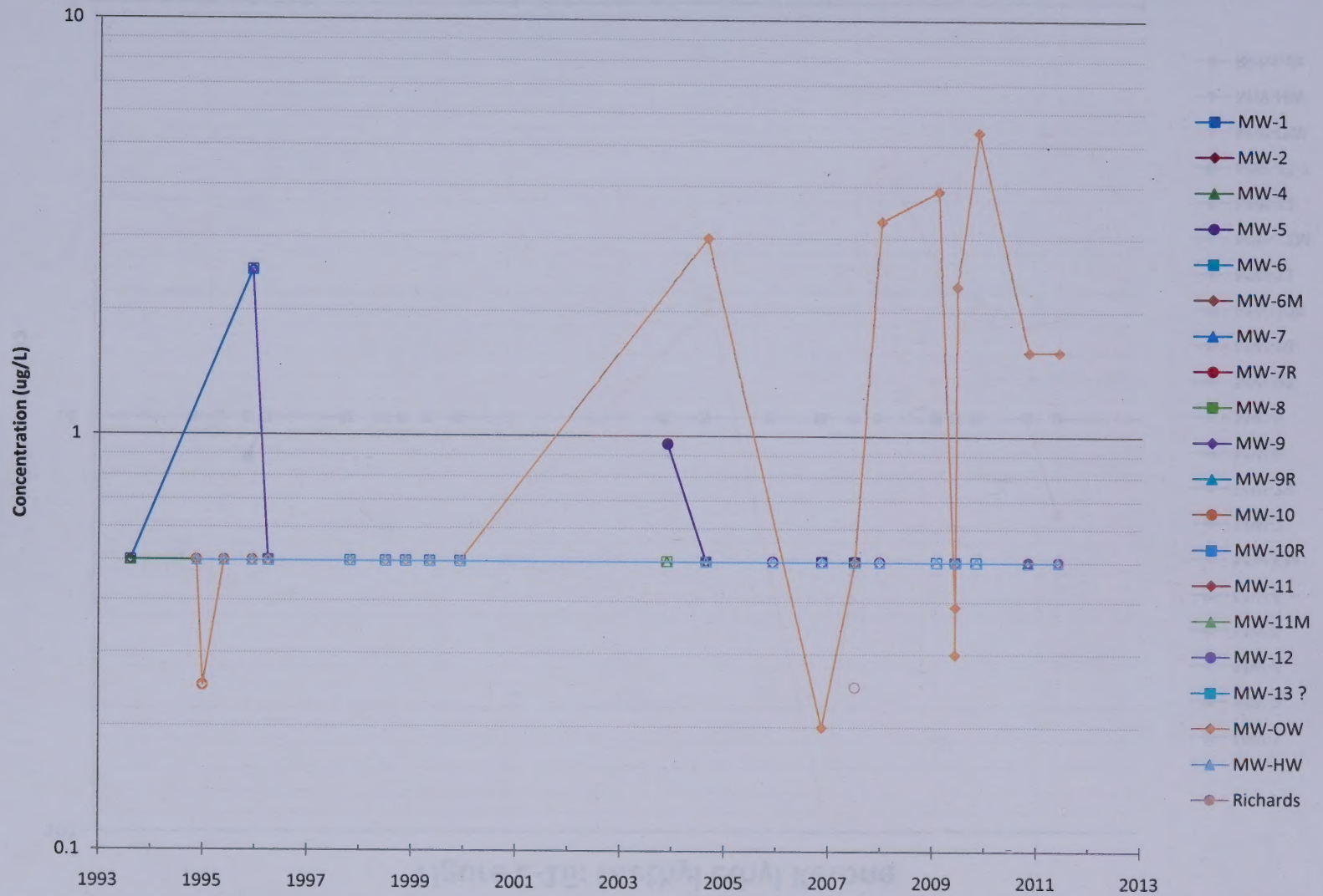




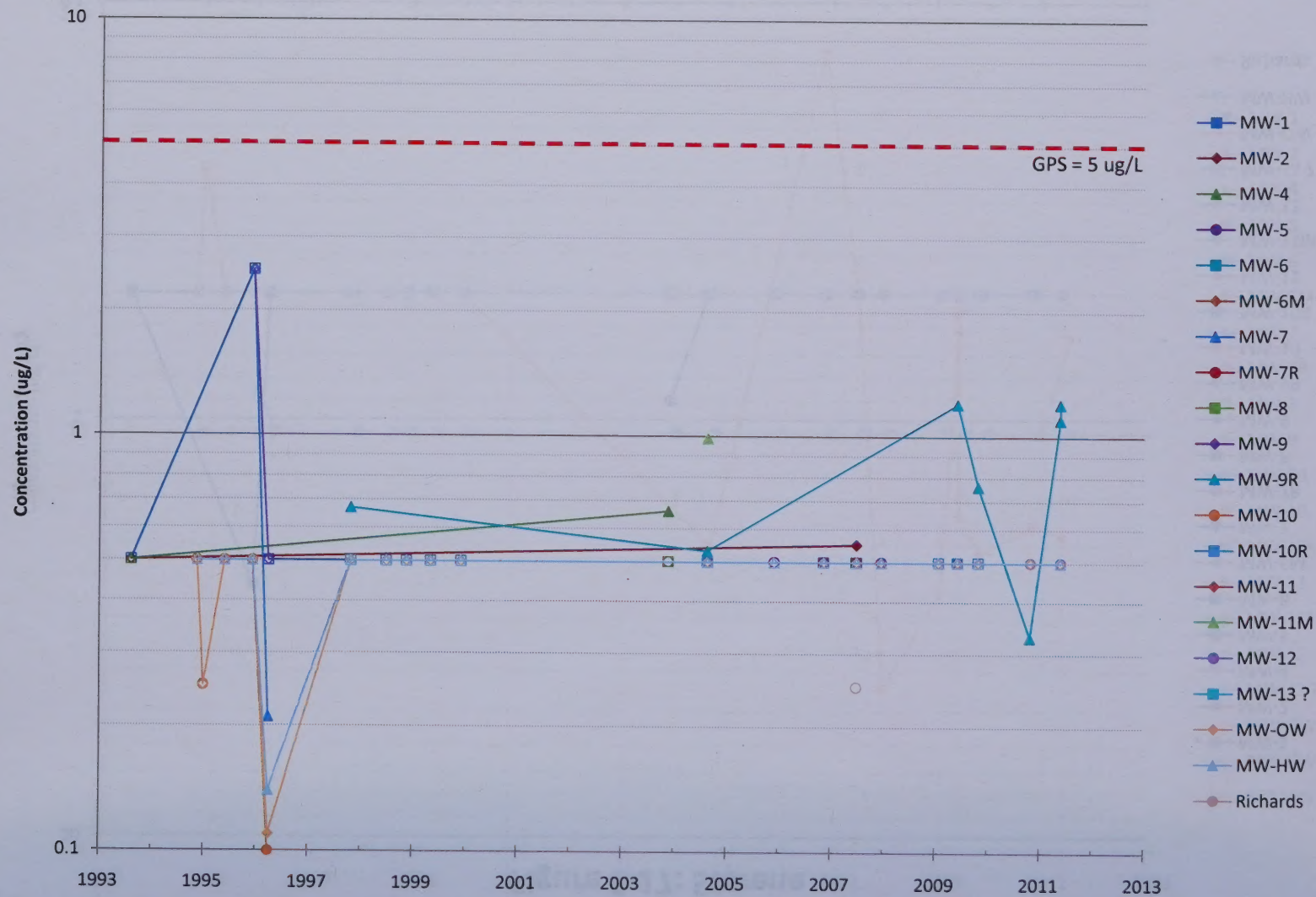
Figure E-15: Ethylbenzene



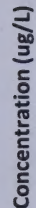
9.



Figure E-18: Tetrachloroethene



GPS = 5 ug/L



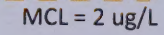


Figure E-25a: May 1967 - 1968



Figure E-25b: 1969 - 1970

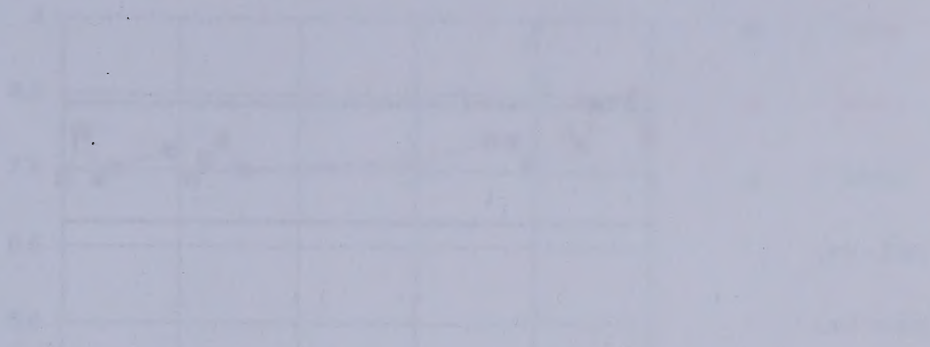
Figure F-1: Prediction Limit Analysis for pH in Open Water

Water temperature: 15°C

Water type: Freshwater

Prediction Limit:

95% Confidence



APPENDIX F: RESULTS OF STATISTICAL ANALYSES

Statistical analysis of the data for the pH in Open Water. The data was analyzed using the Student's t-test. The results of the analysis are shown in the table below. The data was analyzed using the Student's t-test. The results of the analysis are shown in the table below.

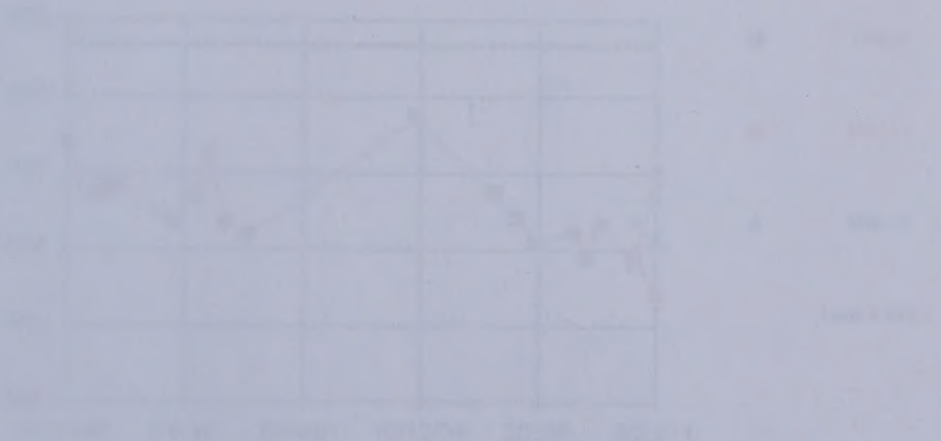
Figure F-2: Prediction Limit Analysis for Conductivity in Open Water

Water temperature: 15°C

Water type: Freshwater

Prediction Limit:

95% Confidence



Statistical analysis of the data for the Conductivity in Open Water. The data was analyzed using the Student's t-test. The results of the analysis are shown in the table below. The data was analyzed using the Student's t-test. The results of the analysis are shown in the table below.

APPENDIX B. RESULTS OF STATISTICAL ANALYSES

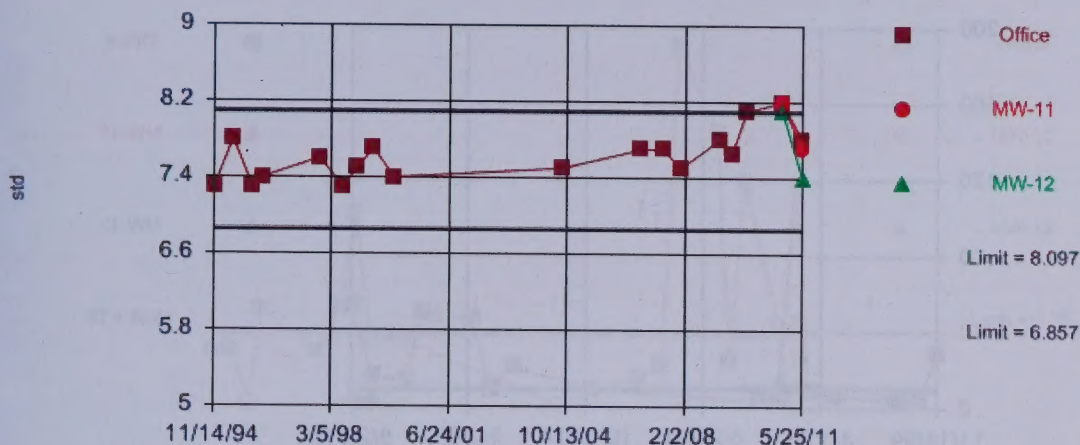
Figure F-1: Prediction Limit Analysis for pH in Deep Wells

v.9.0.34 For regulatory purposes only. EPA

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.477, Std. Dev.=0.2289, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9695, critical = 0.901. Report alpha = 0.05. Individual comparison alpha = 0.008333. Most recent point for each compliance well compared to limit.

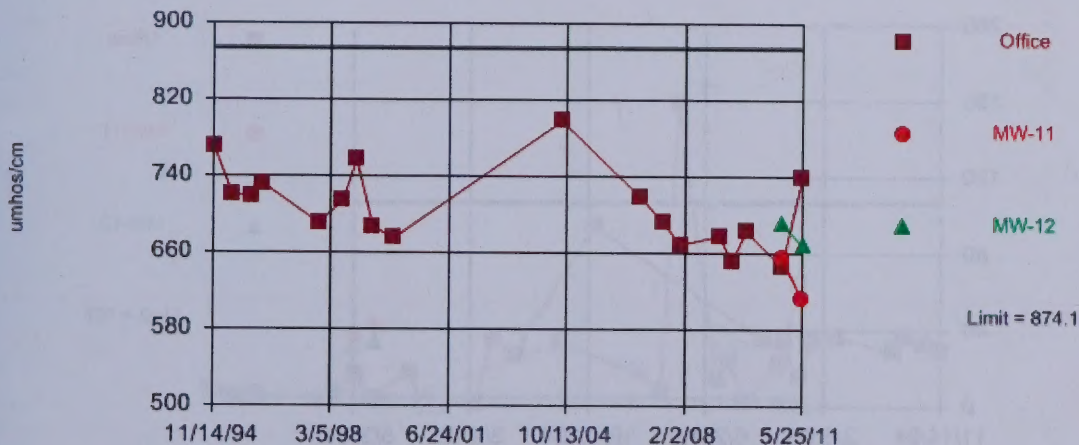
Figure F-2: Prediction Limit Analysis for Conductivity in Deep Wells

v.9.0.34 For regulatory purposes only. EPA

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=764.5, Std. Dev.=46.38, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9709, critical = 0.901. Report alpha = 0.05. Individual comparison alpha = 0.01667. Most recent point for each compliance well compared to limit.

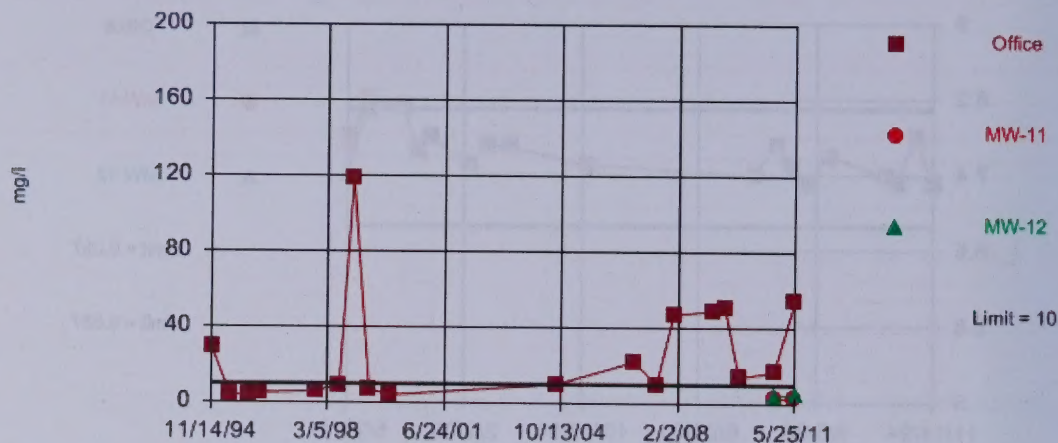
Figure F-3: Prediction Limit Analysis for Chloride in Deep Wells

v.9.0.34 For regulatory purposes only. EPA

Exceeds Limit: Office

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values Report alpha = 0.1364. Individual comparison alpha = 0.04769. Most recent point for each compliance well compared to limit.

Figure F-4: Prediction Limit Analysis for Sulfate in Deep Wells

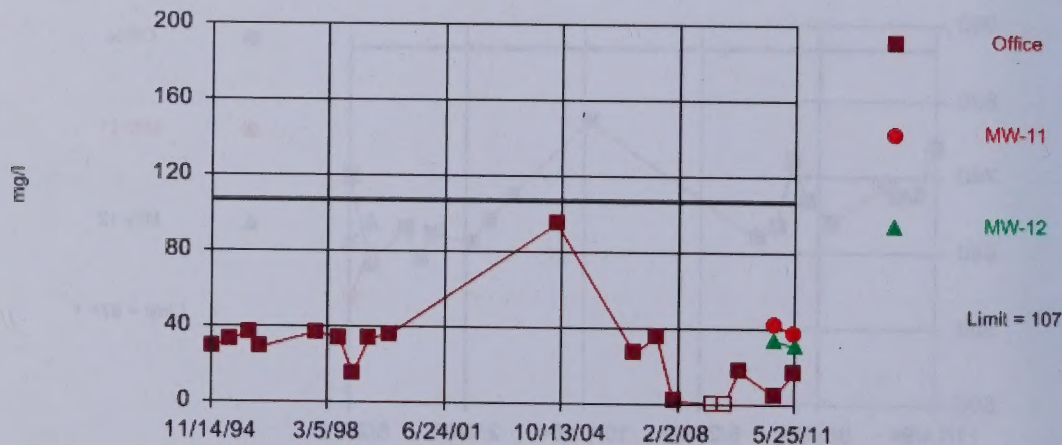
v.9.0.34 For regulatory purposes only. EPA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values Report alpha = 0.1364. Individual comparison alpha = 0.04769. Most recent point for each compliance well compared to limit.

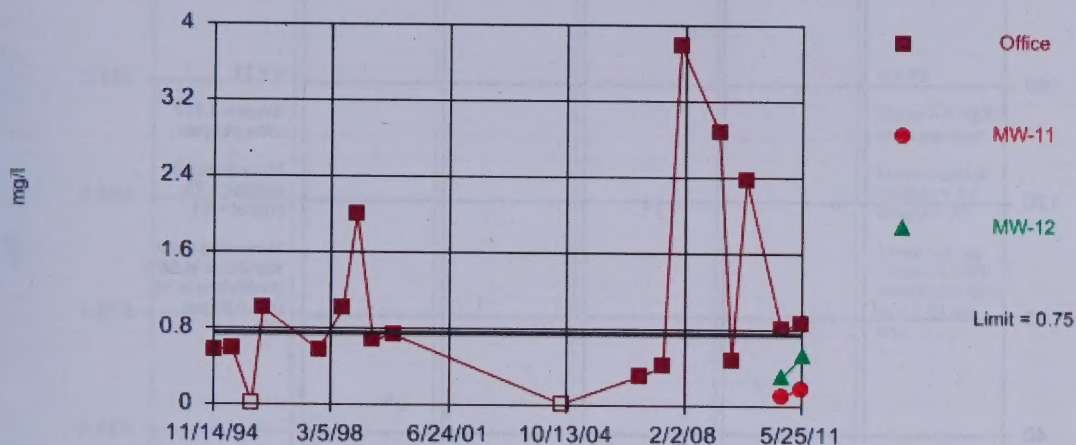
Figure F-5: Prediction Limit Analysis for Iron in Deep Wells

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

Exceeds Limit: Office

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs Report alpha = 0.1364. Individual comparison alpha = 0.04769. Most recent point for each compliance well compared to limit.

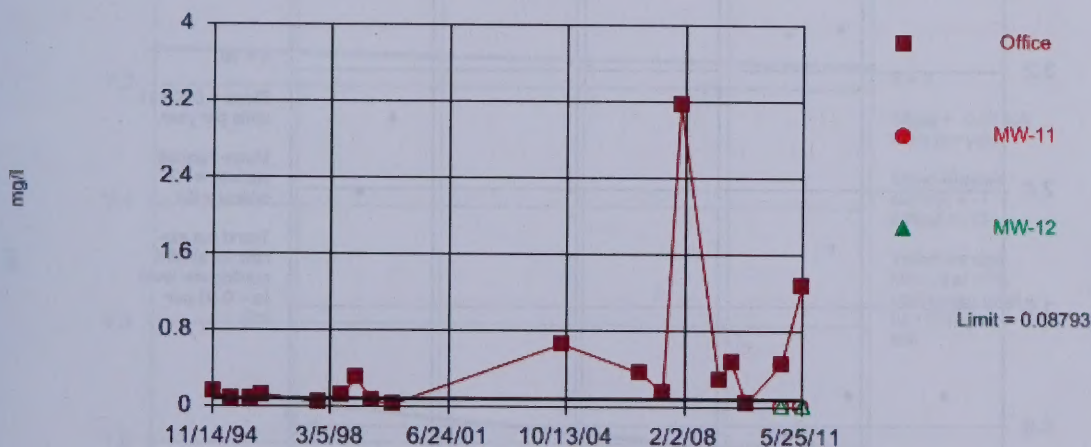
Figure F-6: Prediction Limit Analysis for Zinc in Deep Wells

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

Exceeds Limit: Office

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.1778, Std. Dev.=0.05022, n=19, 5.263% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9203, critical = 0.901. Report alpha = 0.05. Individual comparison alpha = 0.01667. Most recent point for each compliance well compared to limit.

Figure G-7: Trend Analysis for Chloride in MW-OW

v.9.0.34 For regulatory purposes only. EPA

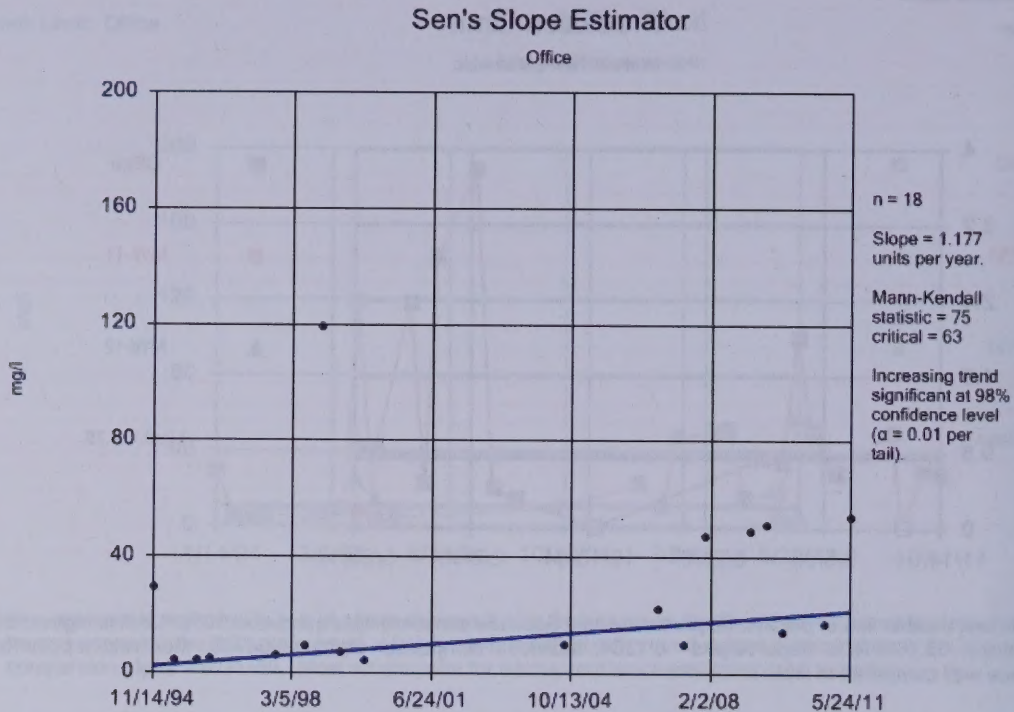


Figure G-8: Trend Analysis for Iron in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

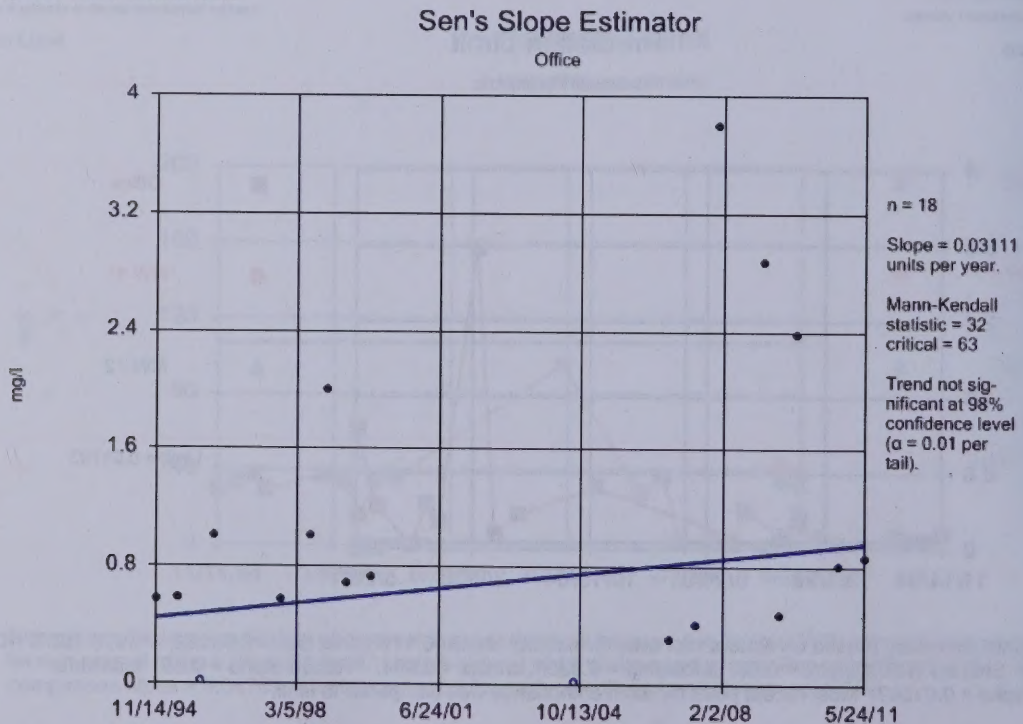


Figure G-9: Trend Analysis for Zinc in MW-OW

v 9.0.34 For regulatory purposes only. EPA

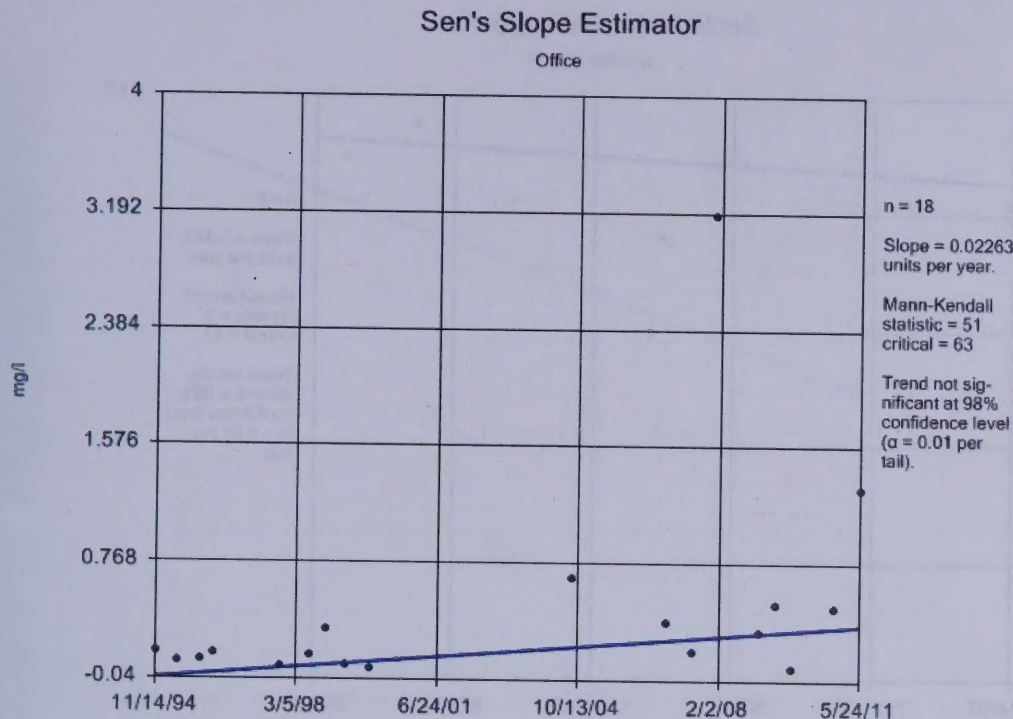


Figure G-10: Trend Analysis for pH in MW-9R

v 9.0.34 For regulatory purposes only. EPA

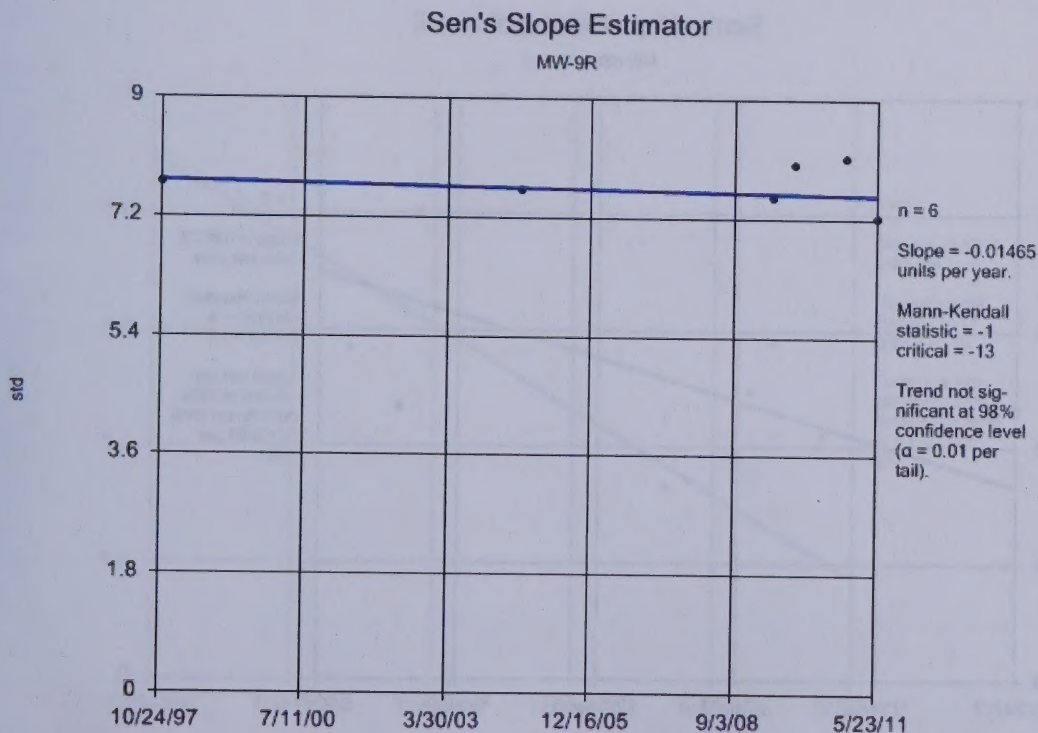


Figure G-11: Trend Analysis for Conductivity in MW-9R

v 9.0.34 For regulatory purposes only. EPA

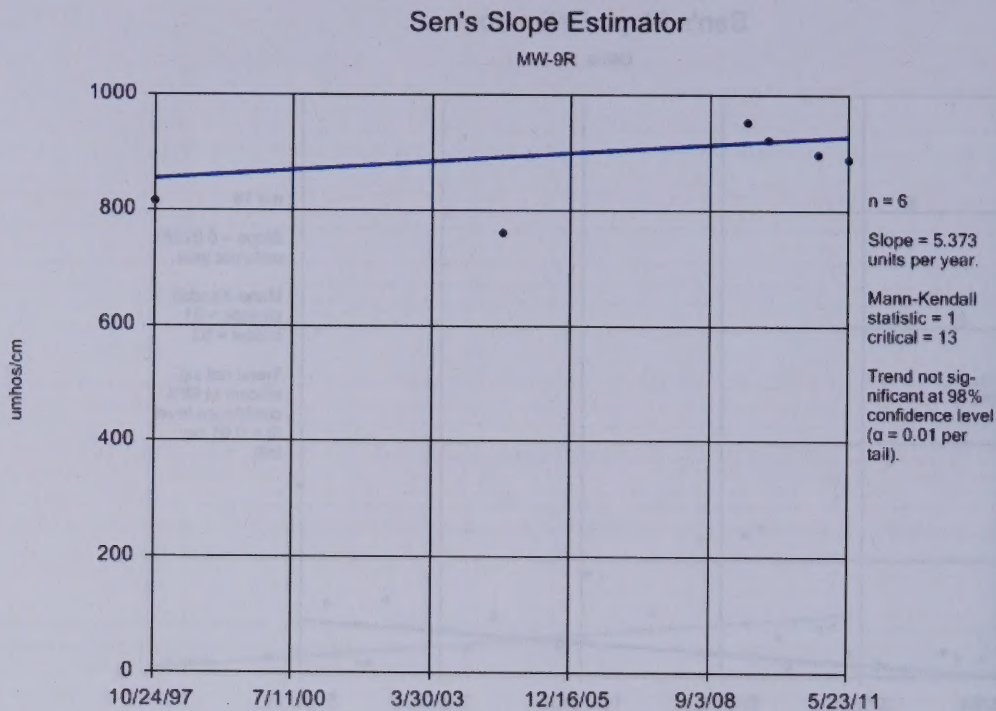


Figure G-12: Trend Analysis for Chloride in MW-9R

v 9.0.34 For regulatory purposes only. EPA

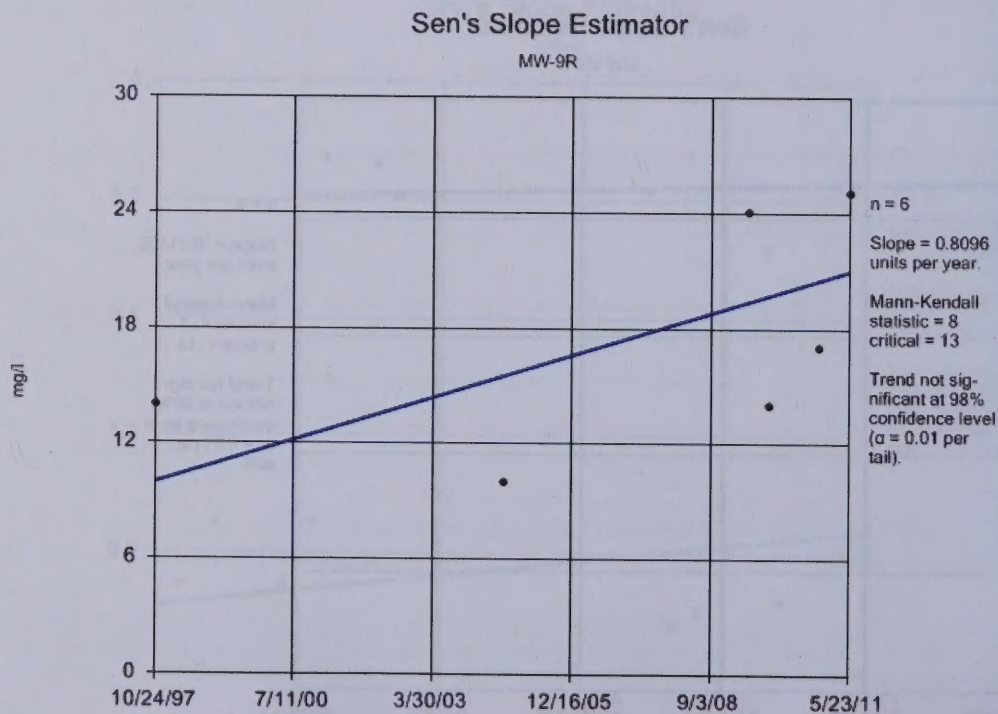


Figure G-13: Trend Analysis for Sulfate in MW-9R

v.9.0.34 For regulatory purposes only. EPA

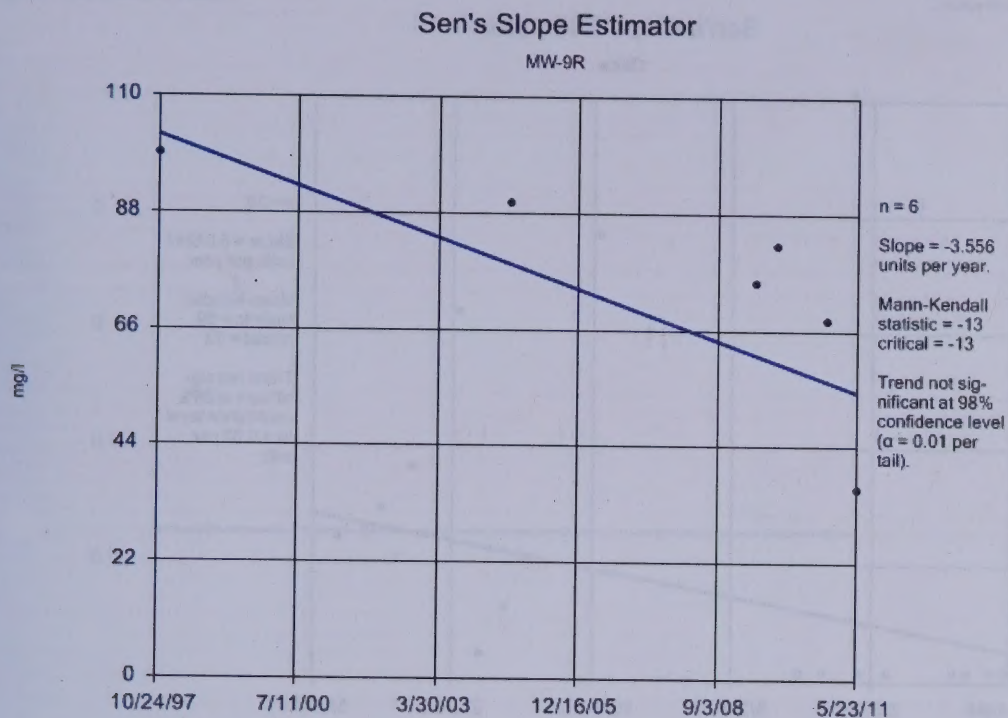


Figure G-14: Trend Analysis for Nitrate + Nitrite in MW-9R

v.9.0.34 For regulatory purposes only. EPA

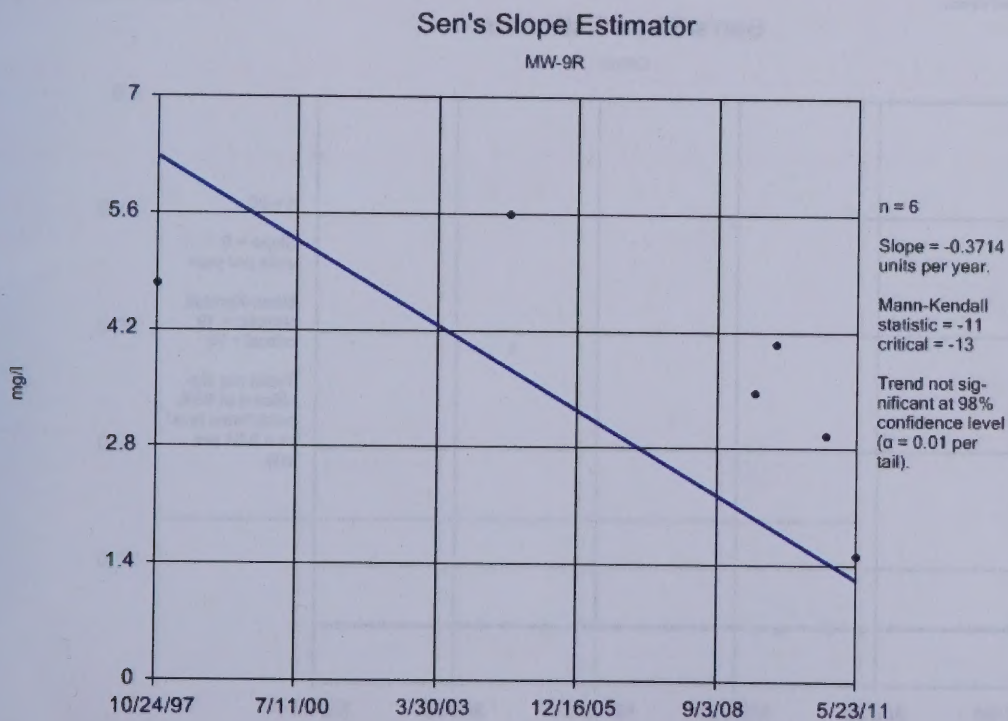


Figure G-15: Trend Analysis for Benzene in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

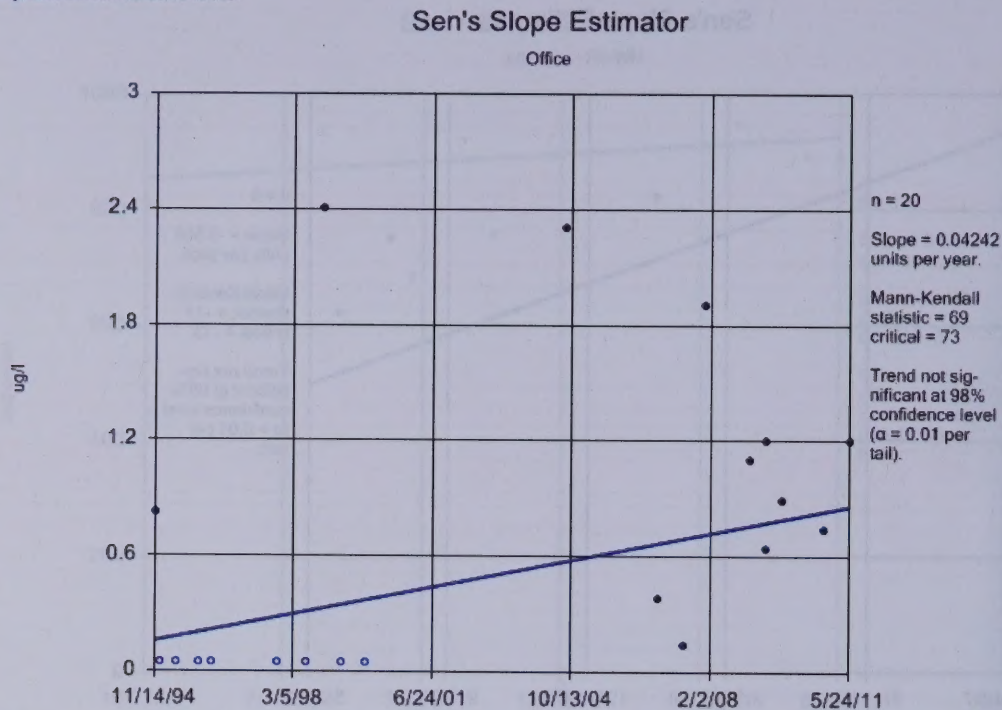


Figure G-16: Trend Analysis for Bromochloromethane in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

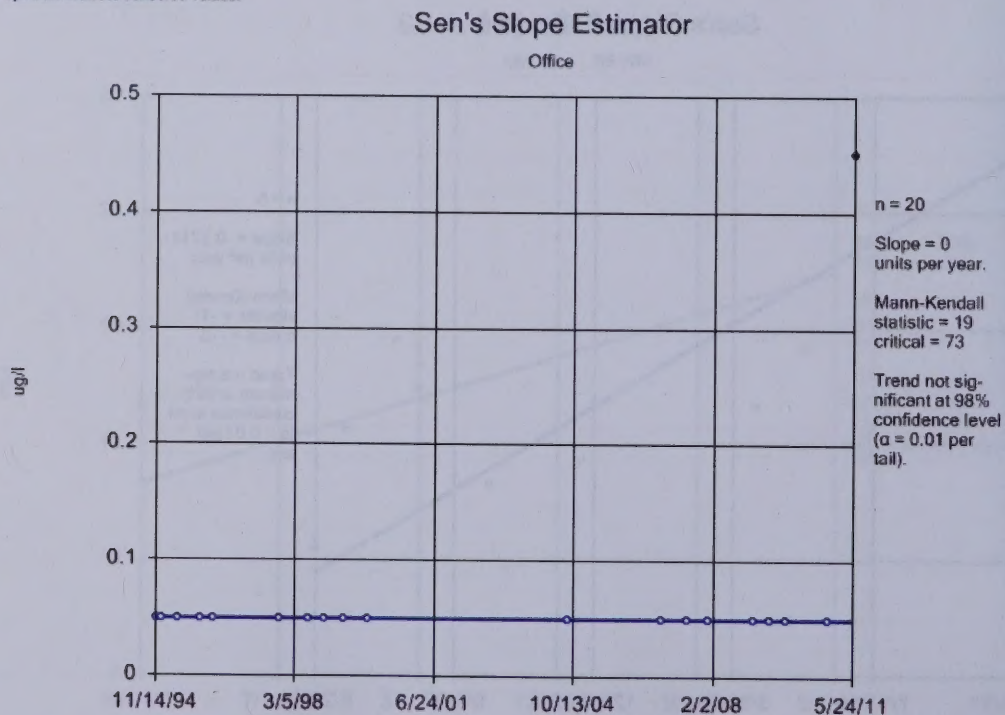


Figure G-17: Trend Analysis for Chloromethane in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

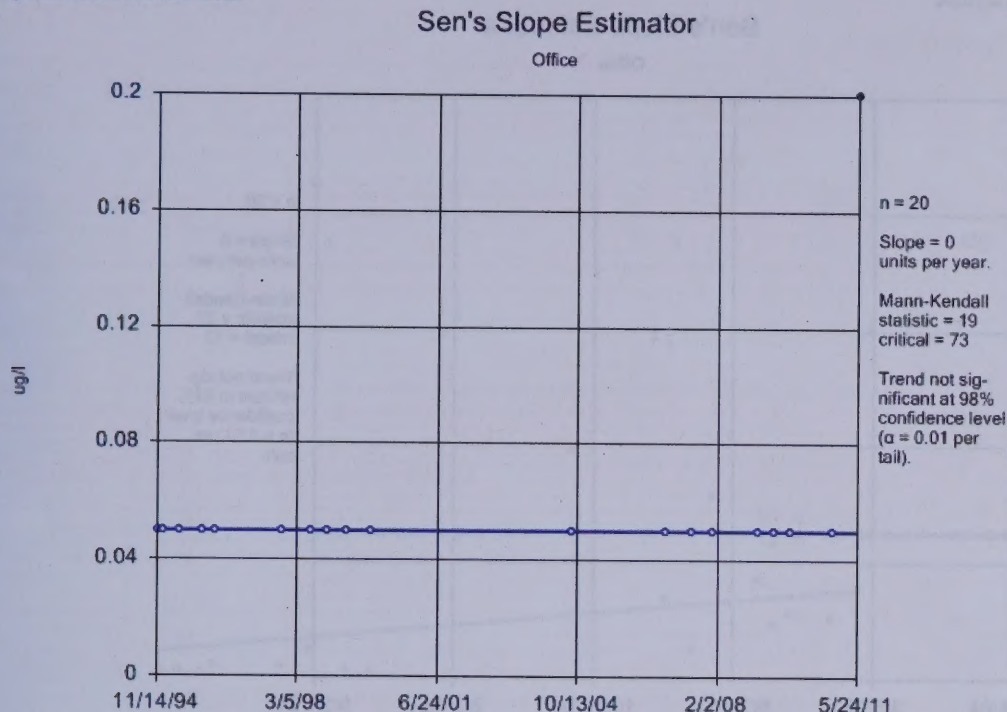


Figure G-18: Trend Analysis for Dichlorodifluoromethane in MW-9R

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

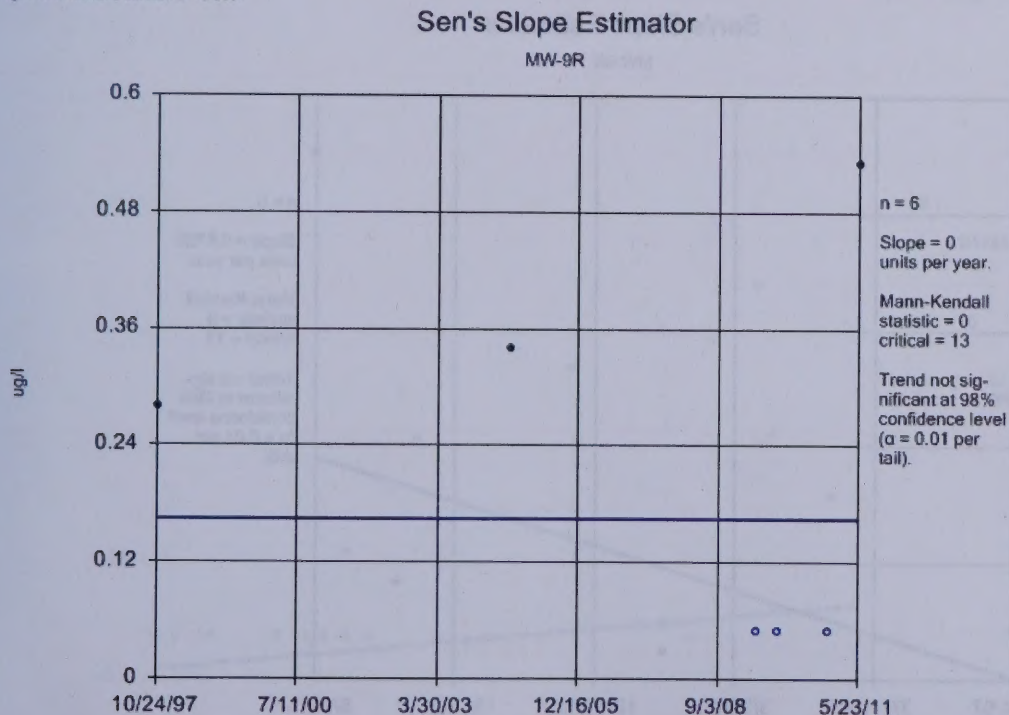


Figure G-19: Trend Analysis for 1,2-Dichloroethane in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

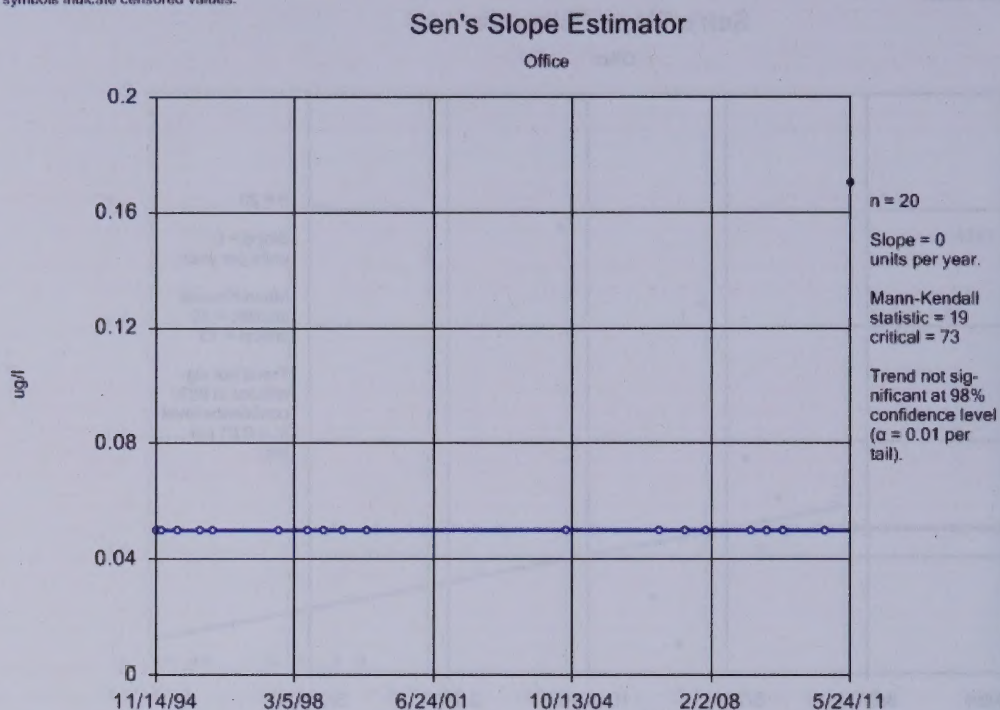


Figure G-20: Trend Analysis for cis-1,2-Dichloroethene in MW-9R

v.9.0.34 For regulatory purposes only. EPA

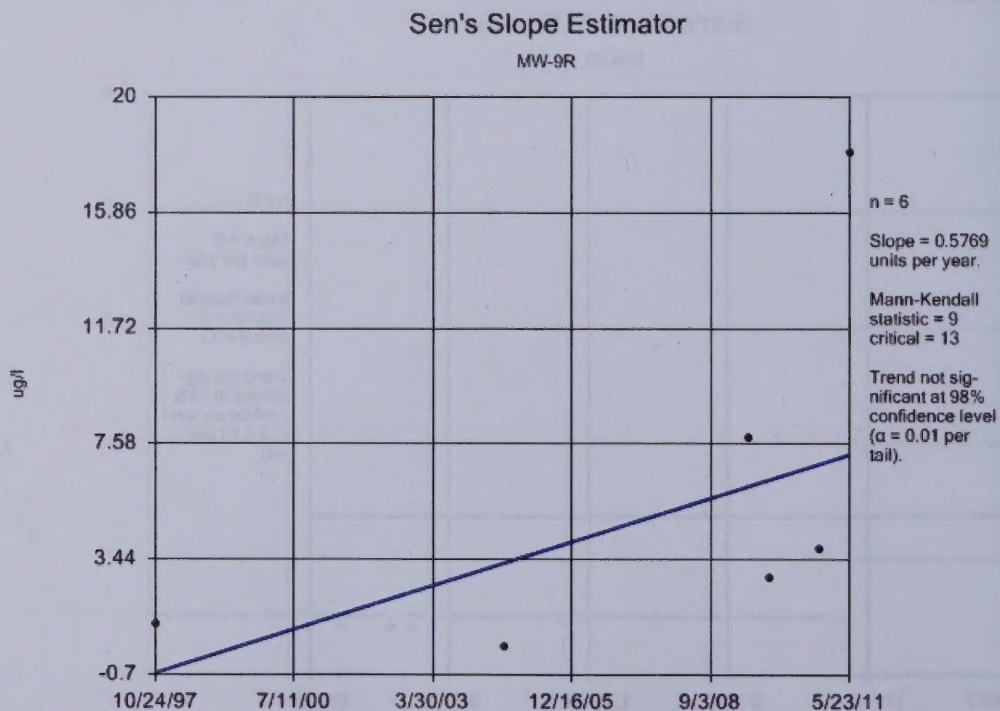


Figure G-21: Trend Analysis for cis-1,2-Dichloroethene in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

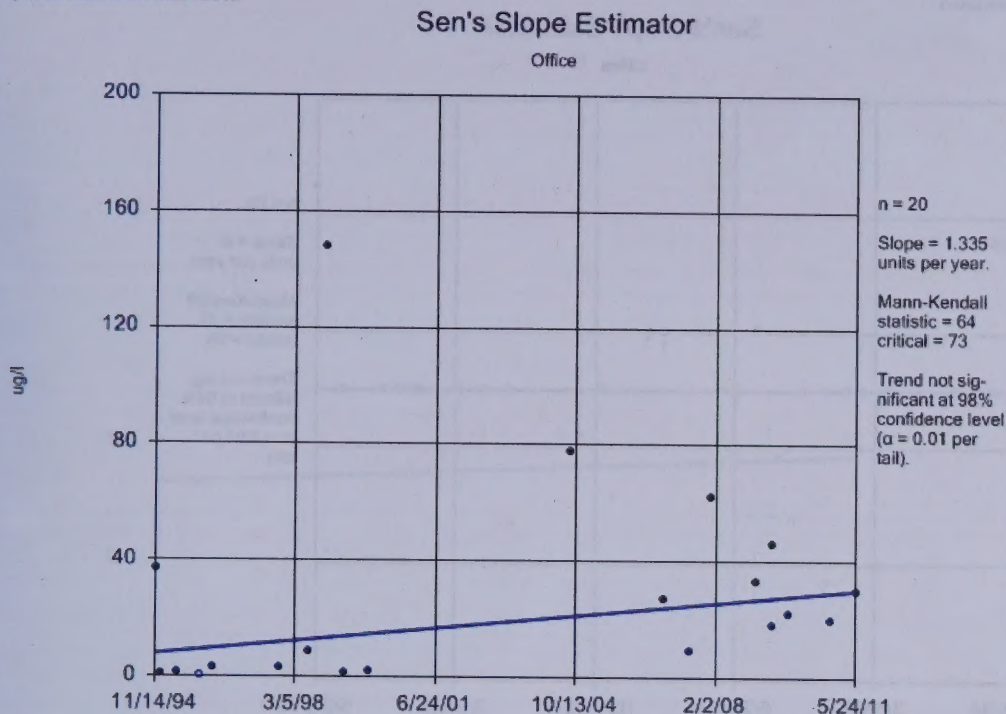


Figure G-22: Trend Analysis for Ethyl benzene in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

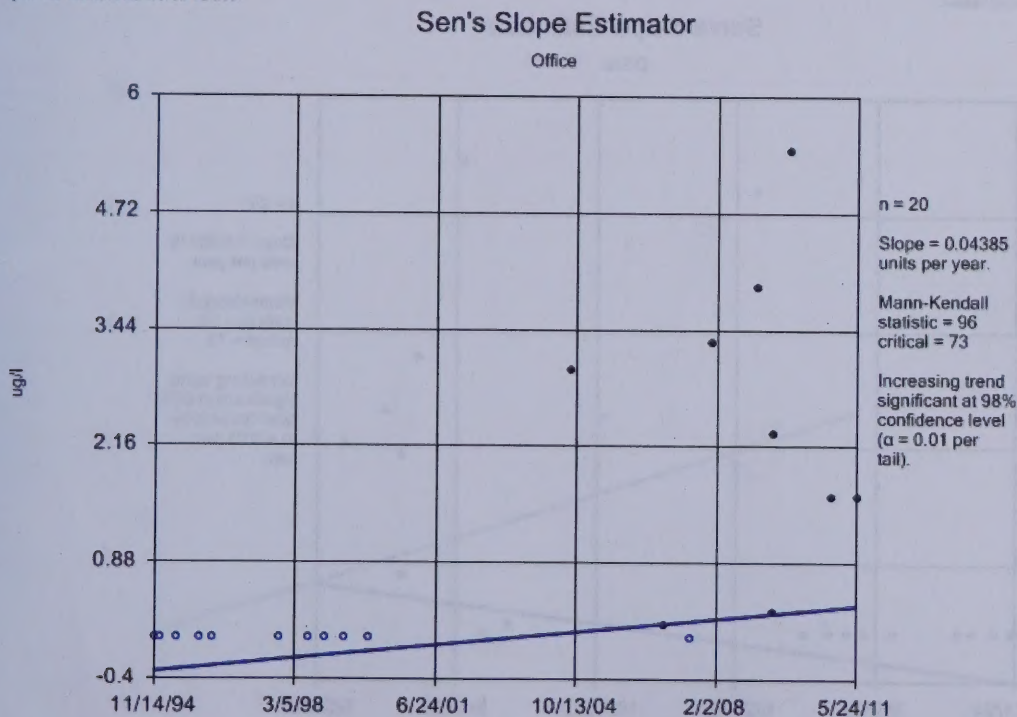


Figure G-23: Trend Analysis for Methyl ethyl ketone in MW-OW

v 9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

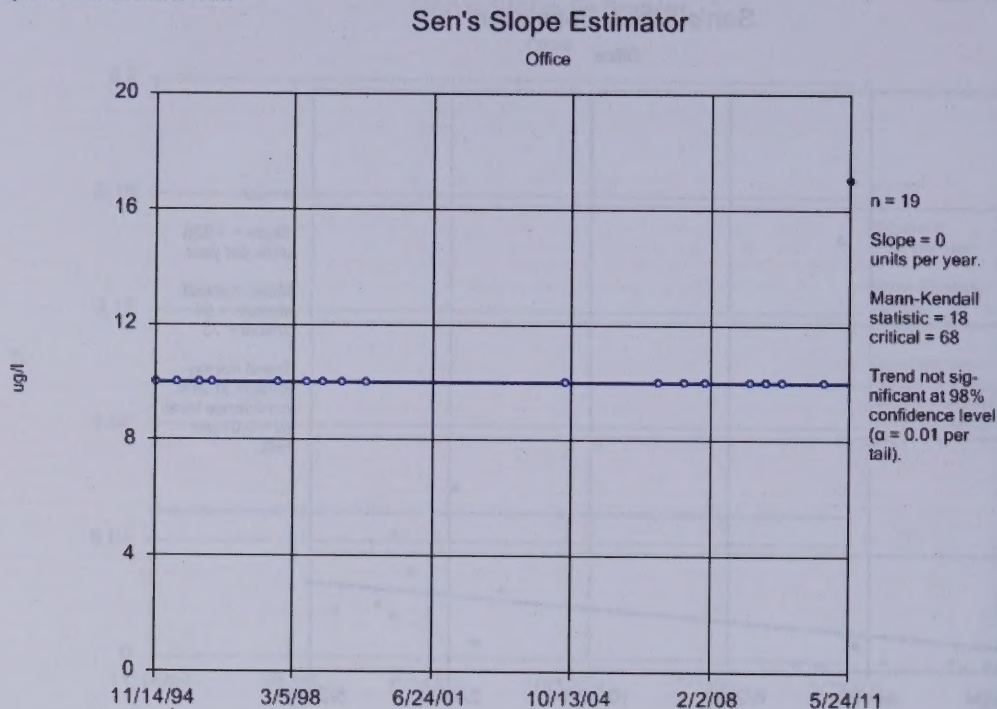


Figure G-24: Trend Analysis for Styrene in MW-OW

v 9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

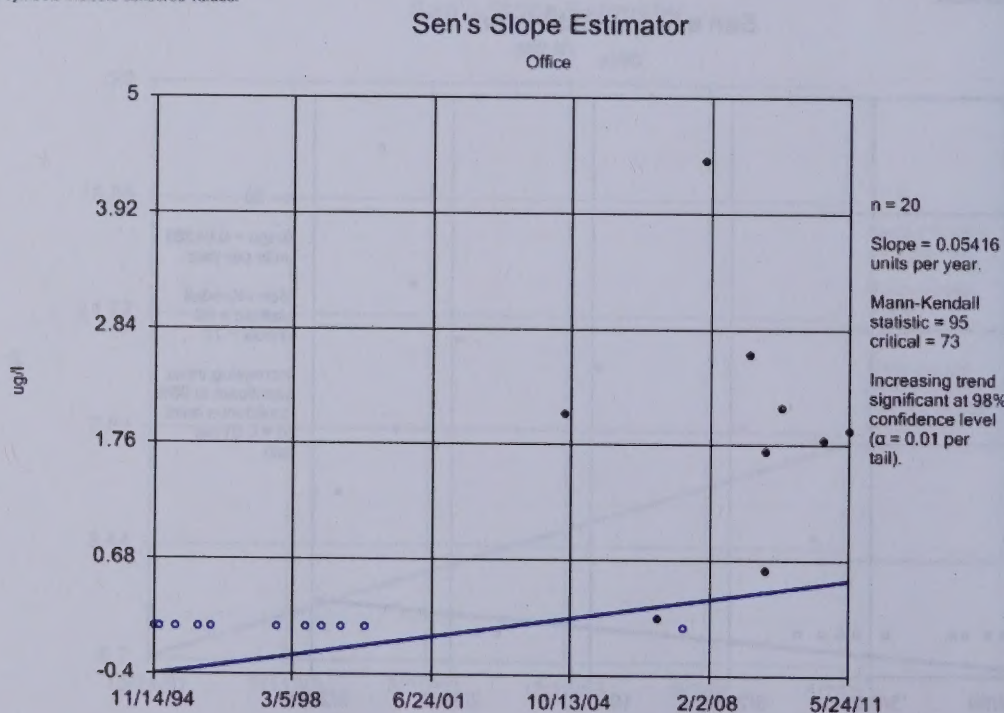


Figure G-25: Trend Analysis for Tetrachloroethene in MW-9R

v.9.0.34 For regulatory purposes only. EPA

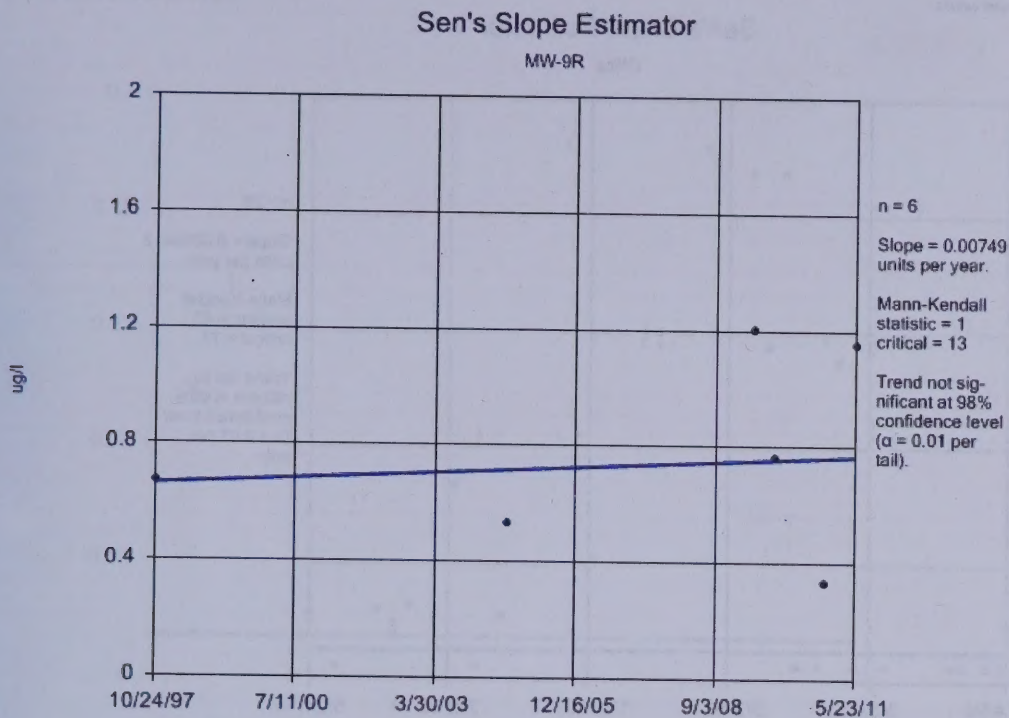


Figure G-26: Trend Analysis for Trichloroethene in MW-9R

v.9.0.34 For regulatory purposes only. EPA

Hollow symbols indicate censored values.

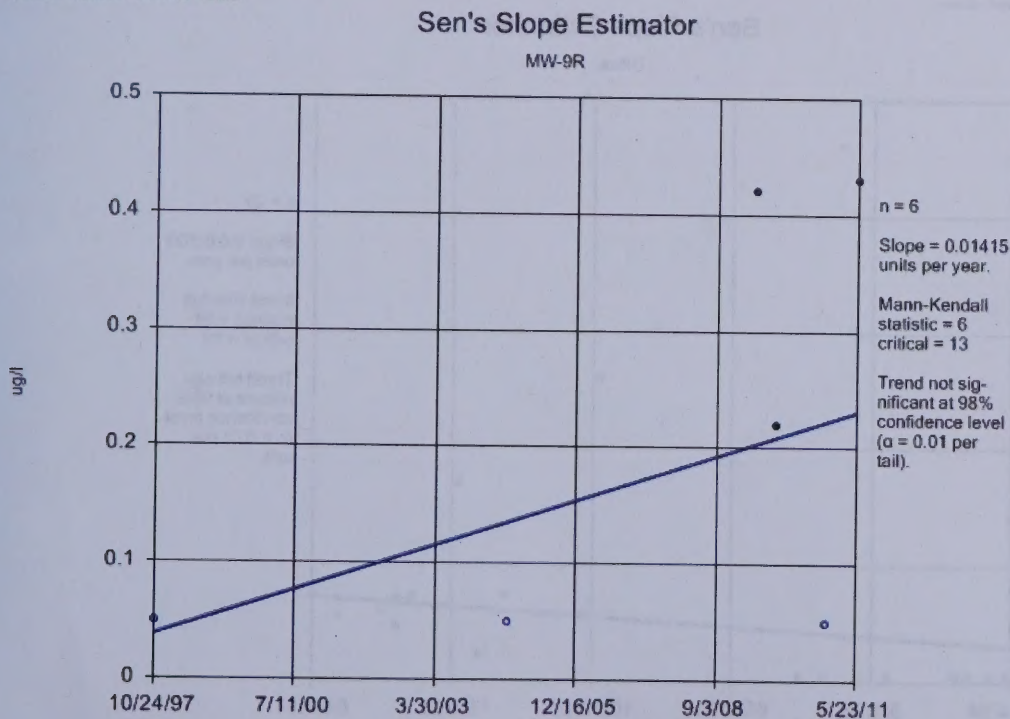


Figure G-27: Trend Analysis for Trichloroethene in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

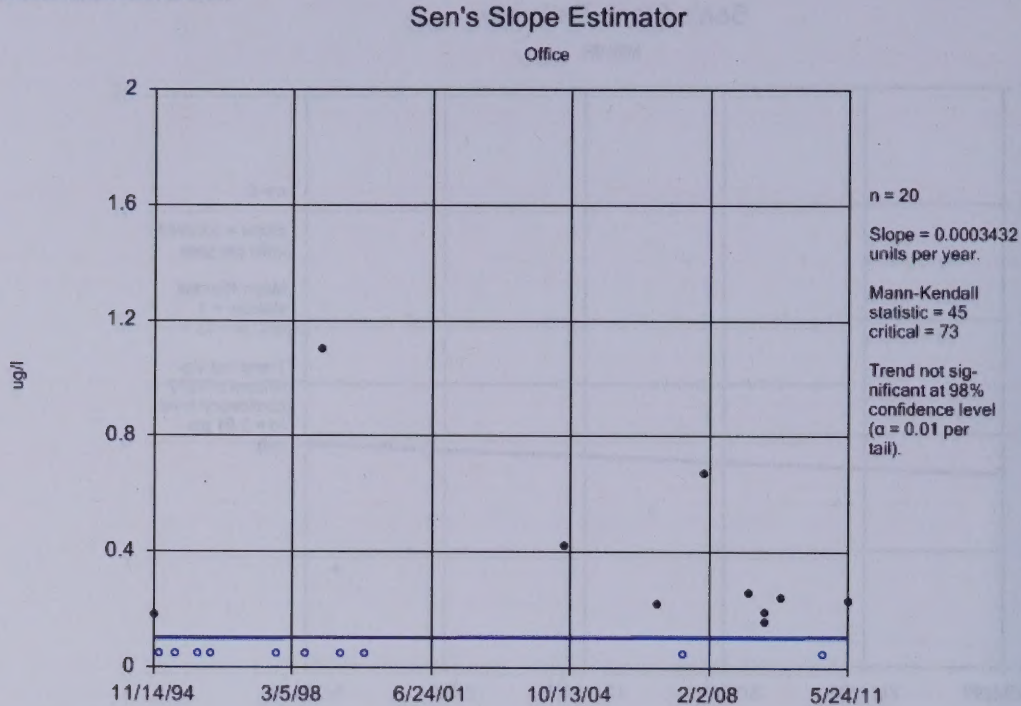


Figure G-28: Trend Analysis for Vinyl chloride in MW-OW

v.9.0.34 For regulatory purposes only. EPA
Hollow symbols indicate censored values.

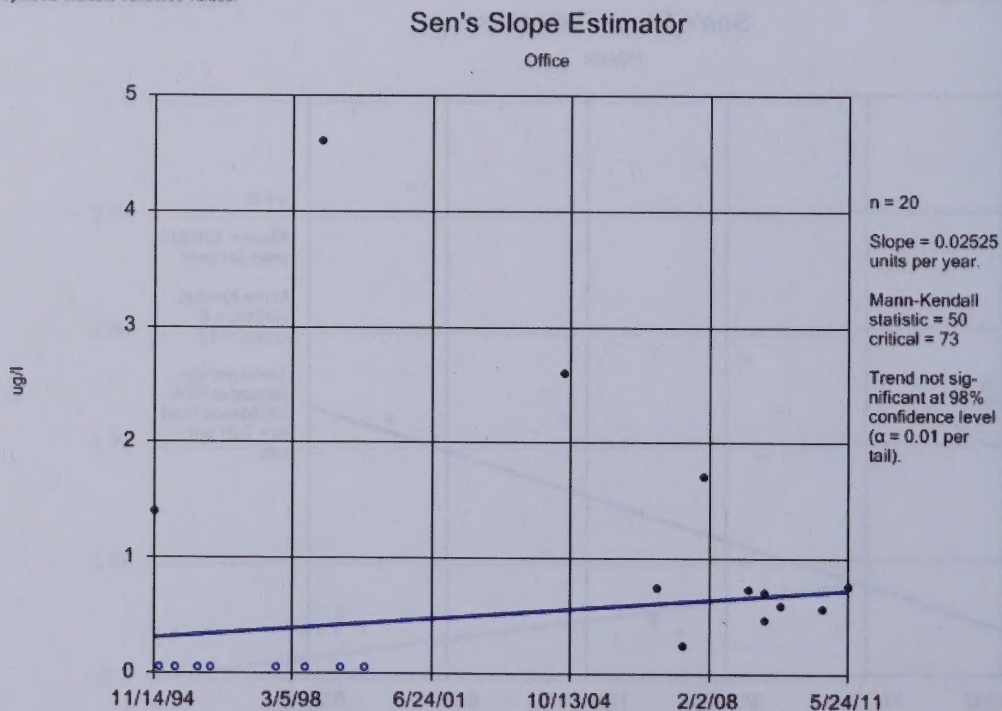


Figure G-29: Trend Analysis for Total Xylenes in MW-OW

v.9.0.34 For regulatory purposes only, EPA
Hollow symbols indicate censored values.

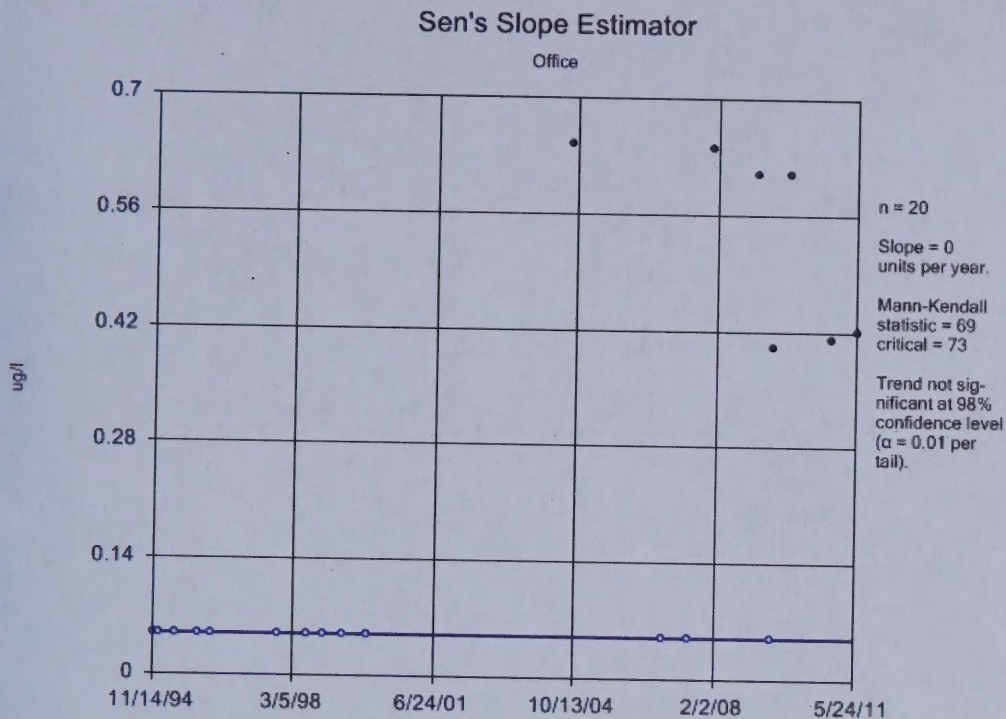


Figure G-27: Trend Analysis for Vinyl Chloride in MWACWY

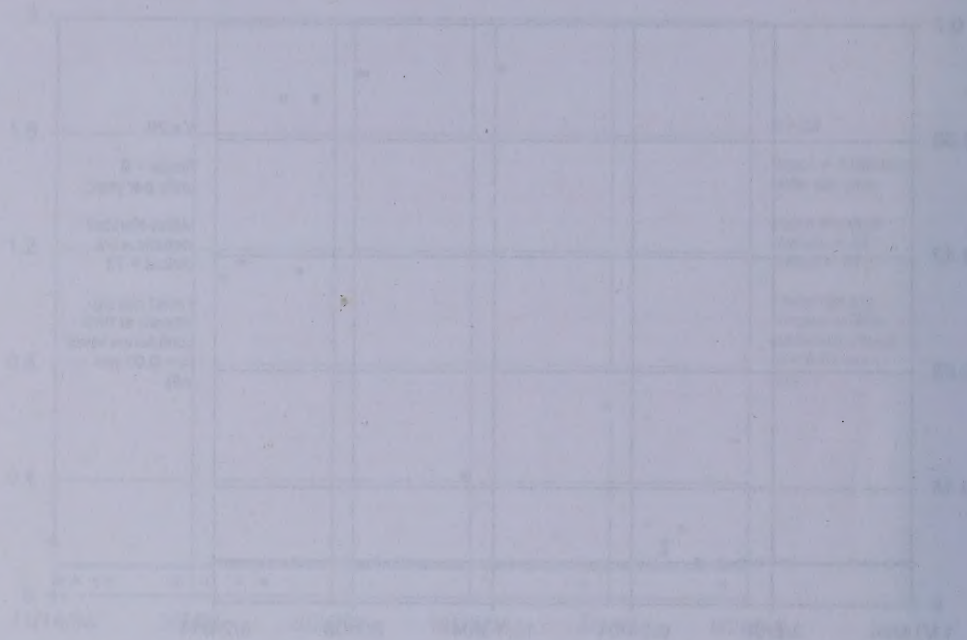
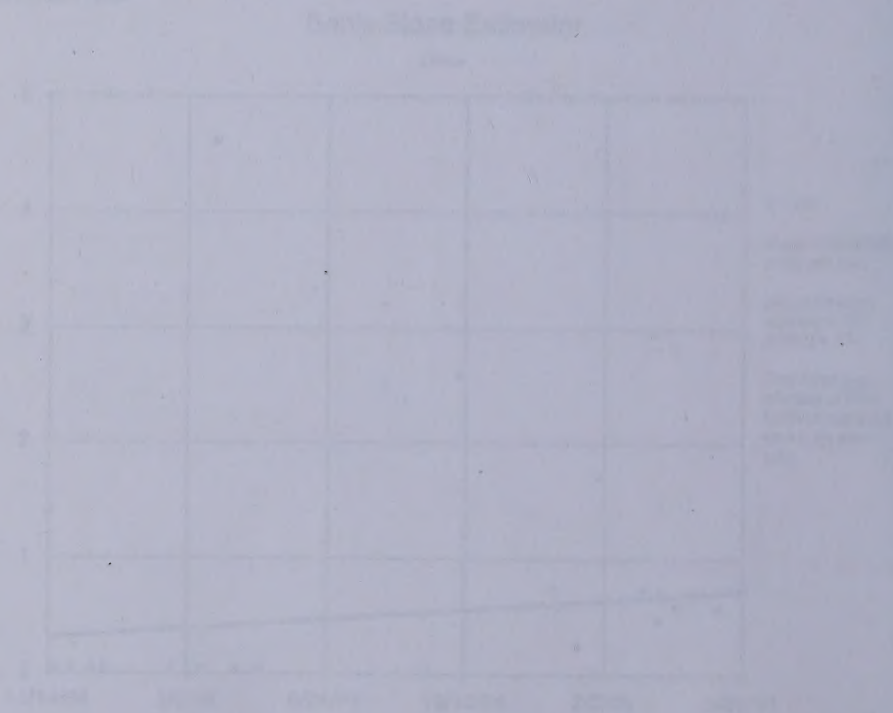


Figure G-28: Trend Analysis for Vinyl Chloride in MWACWY



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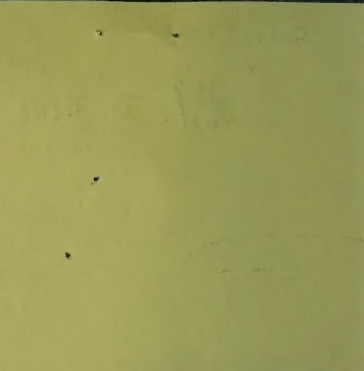
GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____





ANALYTICAL SUMMARY REPORT RECEIVED

June 09, 2011

MT DEQ-Waste and Tank
PO Box 200901
Helena, MT 89620-0901

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Workorder No.: H11050365

Project Name: Mister M Landfill

Energy Laboratories Inc Helena MT received the following 7 samples for MT DEQ-Waste and Tank on 5/25/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H11050365-001	M-M-MW-9R	05/23/11 17:10	05/25/11	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H11050365-002	M-M-MW-9R-Dup	05/23/11 17:15	05/25/11	Aqueous	Same As Above
H11050365-003	M-M-MW-DW 01v mvd	05/24/11 10:35	05/25/11	Aqueous	Same As Above
H11050365-004	M-M-MW-11	05/24/11 15:25	05/25/11	Aqueous	Same As Above
H11050365-005	M-M-MW-HW	05/24/11 17:00	05/25/11	Aqueous	Same As Above
H11050365-006	M-M-MW-12	05/24/11 12:20 5 mvd	05/25/11	Aqueous	Same As Above
H11050365-007	TB 04/28/11 EM HCL1618 011011-3	05/23/11 17:10	05/25/11	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

This report was prepared by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Wanda Johnson

Login Supervisor

Digitally signed by
Wanda Johnson
Date: 2011.06.16 07:57:59 -06:00



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LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-001
Client Sample ID M-M-MW-9R

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.2	s.u.		0.1		A4500-H B	05/26/11 10:02 / cmm
Conductivity	882	umhos/cm		1		A2510 B	05/26/11 10:00 / cmm
INORGANICS							
Chloride	25	mg/L		1		E300.0	05/27/11 16:58 / zeg
Sulfate	36	mg/L		1		E300.0	05/27/11 16:58 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.52	mg/L		0.05		E353.2	05/26/11 14:55 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:29 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:29 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:29 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 13:29 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:29 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:29 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:29 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-001
Client Sample ID M-M-MW-9R

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Dichlorodifluoromethane	0.54	ug/L	J	1.0		SW8260B	05/26/11 15:03 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:03 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Tetrachloroethene	1.1	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Trichloroethene	0.43	ug/L	J	1.0		SW8260B	05/26/11 15:03 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 20:07 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 15:03 / abb
Surr: 1,2-Dichloroethane-d4	102	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: p-Bromofluorobenzene	88.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb
Surr: Toluene-d8	81.0	%REC		70-130		SW8260B	05/26/11 15:03 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-002
Client Sample ID M-M-MW-9R-Dup

Report Date: 06/09/11
Collection Date: 05/23/11 17:15
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.2	s.u.		0.1		A4500-H B	05/26/11 10:06 / cmm
Conductivity	892	umhos/cm		1		A2510 B	05/26/11 10:03 / cmm
INORGANICS							
Chloride	25	mg/L		1		E300.0	05/27/11 17:09 / zeg
Sulfate	36	mg/L		1		E300.0	05/27/11 17:09 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.52	mg/L		0.05		E353.2	05/26/11 14:57 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:34 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:34 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:34 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 13:34 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:34 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:34 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:34 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-002
Client Sample ID M-M-MW-9R-Dup

Report Date: 06/09/11
Collection Date: 05/23/11 17:15
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Dichlorodifluoromethane	0.52	ug/L	J	1.0		SW8260B	05/26/11 15:33 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 15:33 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Tetrachloroethene	1.2	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Trichloroethene	0.43	ug/L	J	1.0		SW8260B	05/26/11 15:33 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 20:38 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 15:33 / abb
Surr: 1,2-Dichloroethane-d4	101	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: Dibromofluoromethane	93.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: p-Bromofluorobenzene	88.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb
Surr: Toluene-d8	86.0	%REC		70-130		SW8260B	05/26/11 15:33 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-003
Client Sample ID: M-M-MW-DW OW

Report Date: 06/09/11
Collection Date: 05/24/11 10:35
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	05/26/11 10:19 / cmm
Conductivity	739	umhos/cm		1		A2510 B	05/26/11 10:05 / cmm
INORGANICS							
Chloride	54	mg/L		1		E300.0	05/27/11 17:21 / zeg
Sulfate	17	mg/L		1		E300.0	05/27/11 17:21 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 14:58 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:38 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:38 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:38 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Iron	0.86	mg/L		0.03		E200.8	05/26/11 13:38 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:38 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:38 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:38 / dck
Zinc	1.28	mg/L		0.01		E200.8	05/26/11 13:38 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Benzene	1.2	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromochloromethane	0.45	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-003
Client Sample ID M-M-MW-DW QW

Report Date: 06/09/11
Collection Date: 05/24/11 10:35
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	0.20	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichloroethane	0.17	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
cis-1,2-Dichloroethene	30	ug/L		5.0		SW8260B	05/27/11 18:28 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Ethylbenzene	1.6	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Methyl ethyl ketone	17	ug/L	J	20		SW8260B	05/26/11 14:32 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 14:32 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Styrene	1.9	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Trichloroethene	0.23	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 19:07 / abb
Vinyl chloride	0.76	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 14:32 / abb
o-Xylene	0.42	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Xylenes, Total	0.42	ug/L	J	1.0		SW8260B	05/26/11 14:32 / abb
Surr: 1,2-Dichloroethane-d4	114	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: Dibromofluoromethane	86.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb
Surr: Toluene-d8	85.0	%REC		70-130		SW8260B	05/26/11 14:32 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-004
Client Sample ID: M-M-MW-11

Report Date: 06/09/11
Collection Date: 05/24/11 15:25
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	05/26/11 10:15 / cmm
Conductivity	612	umhos/cm		1		A2510 B	05/26/11 10:07 / cmm
INORGANICS							
Chloride	3	mg/L		1		E300.0	05/27/11 17:33 / zeg
Sulfate	38	mg/L		1		E300.0	05/27/11 17:33 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 14:59 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 13:42 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 13:42 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 13:42 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Iron	0.18	mg/L		0.03		E200.8	05/26/11 13:42 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 13:42 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 13:42 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 13:42 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-004
Client Sample ID: M-M-MW-11

Report Date: 06/09/11
Collection Date: 05/24/11 15:25
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 18:59 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 19:37 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 18:59 / abb
Surr: 1,2-Dichloroethane-d4	106	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb
Surr: Toluene-d8	84.0	%REC		70-130		SW8260B	05/27/11 18:59 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-005
Client Sample ID M-M-MW-HW

Report Date: 06/09/11
Collection Date: 05/24/11 17:00
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	05/26/11 10:23 / cmm
Conductivity	749	umhos/cm		1		A2510 B	05/26/11 10:08 / cmm
INORGANICS							
Chloride	9	mg/L		1		E300.0	05/27/11 17:44 / zeg
Sulfate	28	mg/L		1		E300.0	05/27/11 17:44 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.13	mg/L		0.05		E353.2	05/26/11 15:03 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 14:04 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 14:04 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 14:04 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Iron	ND	mg/L		0.03		E200.8	05/26/11 14:04 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 14:04 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 14:04 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 14:04 / dck
Zinc	0.03	mg/L		0.01		E200.8	05/26/11 14:04 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-005
Client Sample ID M-M-MW-HW

Report Date: 06/09/11
Collection Date: 05/24/11 17:00
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 19:29 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/01/11 18:06 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 19:29 / abb
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: Dibromofluoromethane	89.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: p-Bromofluorobenzene	92.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb
Surr: Toluene-d8	88.0	%REC		70-130		SW8260B	05/27/11 19:29 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-006
Client Sample ID: M-M-MW-12

Report Date: 06/09/11 *MVD*
Collection Date: 05/27/11 12:20
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.4	s.u.		0.1		A4500-H B	05/26/11 10:26 / cmm
Conductivity	668	umhos/cm		1		A2510 B	05/26/11 10:09 / cmm
INORGANICS							
Chloride	5	mg/L		1		E300.0	05/27/11 18:19 / zeg
Sulfate	31	mg/L		1		E300.0	05/27/11 18:19 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/26/11 15:04 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Arsenic	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Barium	ND	mg/L		0.1		E200.8	05/26/11 14:09 / dck
Beryllium	ND	mg/L		0.001		E200.8	05/26/11 14:09 / dck
Cadmium	ND	mg/L		0.001		E200.8	05/26/11 14:09 / dck
Chromium	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Cobalt	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Copper	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Iron	0.53	mg/L		0.03		E200.8	05/26/11 14:09 / dck
Lead	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Nickel	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
Selenium	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Silver	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Thallium	ND	mg/L		0.005		E200.8	05/26/11 14:09 / dck
Vanadium	ND	mg/L		0.1		E200.8	05/26/11 14:09 / dck
Zinc	ND	mg/L		0.01		E200.8	05/26/11 14:09 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Carbon disulfide	0.14	ug/L	J	1.0		SW8260B	05/27/11 20:30 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-006
Client Sample ID M-M-MW-12

Report Date: 06/09/11 *mv*
Collection Date: 05/24/11 12:20
Date Received: 05/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
cis-1,2-Dichloroethene	0.80	ug/L	J	1.0		SW8260B	05/27/11 20:30 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/27/11 20:30 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/01/11 18:36 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/27/11 20:30 / abb
Surr: 1,2-Dichloroethane-d4	108	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: Dibromofluoromethane	92.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb
Surr: Toluene-d8	83.0	%REC		70-130		SW8260B	05/27/11 20:30 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-007
Client Sample ID TB 04/28/11 EM HCL1618 011011-3

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Benzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromoform	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloroform	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
2-Hexanone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	05/26/11 13:01 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Styrene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Toluene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank
Project: Mister M Landfill
Lab ID: H11050365-007
Client Sample ID TB 04/28/11 EM HCL1618 011011-3

Report Date: 06/09/11
Collection Date: 05/23/11 17:10
Date Received: 05/25/11
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	05/26/11 13:01 / abb
Surr: 1,2-Dichloroethane-d4	102	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: p-Bromofluorobenzene	94.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb
Surr: Toluene-d8	82.0	%REC		70-130		SW8260B	05/26/11 13:01 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										
Analytical Run: COND_110526A										
Sample ID: ICV1_110526A	Initial Calibration Verification Standard									
Conductivity		982	umhos/cm	1.0	98	90	110			05/26/11 09:54
Method: A2510 B										
Batch: 110526A-COND-PROBE-W										
Sample ID: H11050365-001ADUP	Sample Duplicate									
Conductivity		892	umhos/cm	1.0				1.2	10	Run: COND_110526A 05/26/11 10:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										
Analytical Run: PH2_110526A										
Sample ID: CCV1_110526A	Continuing Calibration Verification Standard									
pH		4.00	s.u.	0.10	100	98	102			05/26/11 09:45
Sample ID: CCV2_110526A	Continuing Calibration Verification Standard									
pH		7.02	s.u.	0.10	100	98	102			05/26/11 09:50
Sample ID: ICV1_110526A	Initial Calibration Verification Standard									
pH		7.06	s.u.	0.10	101	99	101			05/26/11 09:52
Method: A4500-H B										
Batch: 110526A-PH-W										
Sample ID: CCV3_110526A	Continuing Calibration Verification Standard									
pH		10.1	s.u.	0.10	101	98	110			05/26/11 09:43
Sample ID: H11050365-001ADUP	Sample Duplicate									
pH		7.22	s.u.	0.10				0.0		05/26/11 10:06
										3

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_110526A								
Sample ID: ICV STD		16 Initial Calibration Verification Standard								
		05/26/11 10:40								
Antimony		0.0502	mg/L	0.050	100	90	110			
Arsenic		0.0499	mg/L	0.0050	100	90	110			
Barium		0.0500	mg/L	0.10	100	90	110			
Beryllium		0.0251	mg/L	0.0010	100	90	110			
Cadmium		0.0262	mg/L	0.0010	105	90	110			
Chromium		0.0499	mg/L	0.010	100	90	110			
Cobalt		0.0509	mg/L	0.010	102	90	110			
Copper		0.0509	mg/L	0.010	102	90	110			
Iron		0.267	mg/L	0.030	107	90	110			
Lead		0.0502	mg/L	0.010	100	90	110			
Nickel		0.0510	mg/L	0.010	102	90	110			
Selenium		0.0512	mg/L	0.0050	102	90	110			
Silver		0.0250	mg/L	0.0050	100	90	110			
Thallium		0.0499	mg/L	0.10	100	90	110			
Vanadium		0.0498	mg/L	0.10	100	90	110			
Zinc		0.0504	mg/L	0.010	101	90	110			
Sample ID: ICSA		16 Interference Check Sample A								
		05/26/11 10:44								
Antimony		0.000380	mg/L	0.050						
Arsenic		0.000188	mg/L	0.0050						
Barium		0.000243	mg/L	0.10						
Beryllium		1.40E-05	mg/L	0.0010						
Cadmium		0.000763	mg/L	0.0010						
Chromium		0.00253	mg/L	0.010						
Cobalt		0.00212	mg/L	0.010						
Copper		0.000612	mg/L	0.010						
Iron		124	mg/L	0.030	124	70	130			
Lead		0.000107	mg/L	0.010						
Nickel		0.00151	mg/L	0.010						
Selenium		0.000268	mg/L	0.0050						
Silver		0.000241	mg/L	0.0050						
Thallium		4.00E-05	mg/L	0.10						
Vanadium		0.000263	mg/L	0.10						
Zinc		0.00166	mg/L	0.010						
Sample ID: ICSAB		16 Interference Check Sample AB								
		05/26/11 10:48								
Antimony		0.000396	mg/L	0.050		0	0			
Arsenic		0.0107	mg/L	0.0050	107	70	130			
Barium		0.000220	mg/L	0.10		0	0			
Beryllium		5.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0109	mg/L	0.0010	109	70	130			
Chromium		0.0228	mg/L	0.010	114	70	130			
Cobalt		0.0232	mg/L	0.010	116	70	130			
Copper		0.0208	mg/L	0.010	104	70	130			
Iron		124	mg/L	0.030	124	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_110526A								
Sample ID: ICSAB		16 Interference Check Sample AB								05/26/11 10:48
Lead		9.30E-05	mg/L	0.010		0	0			
Nickel		0.0222	mg/L	0.010	111	70	130			
Selenium		0.0103	mg/L	0.0050	103	70	130			
Silver		0.0208	mg/L	0.0050	104	70	130			
Thallium		2.00E-06	mg/L	0.10		0	0			
Vanadium		0.0211	mg/L	0.10	105	70	130			
Zinc		0.0115	mg/L	0.010	115	70	130			
Method: E200.8		Batch: R71312								
Sample ID: ICB		16 Method Blank								Run: ICPMS204-B_110526A
Antimony		ND	mg/L	7E-06						05/26/11 11:15
Arsenic		ND	mg/L	3E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	9E-06						
Copper		ND	mg/L	3E-05						
Iron		0.002	mg/L	0.0002						
Lead		ND	mg/L	1.0E-05						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	4E-05						
Silver		3E-05	mg/L	3E-05						
Thallium		ND	mg/L	7E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.0006	mg/L	0.0003						
Sample ID: LFB		16 Laboratory Fortified Blank								Run: ICPMS204-B_110526A
Antimony		0.0466	mg/L	0.050	93	85	115			05/26/11 11:19
Arsenic		0.0435	mg/L	0.0050	87	85	115			
Barium		0.0464	mg/L	0.10	93	85	115			
Beryllium		0.0461	mg/L	0.0010	92	85	115			
Cadmium		0.0460	mg/L	0.0010	92	85	115			
Chromium		0.0446	mg/L	0.010	89	85	115			
Cobalt		0.0450	mg/L	0.010	90	85	115			
Copper		0.0430	mg/L	0.010	86	85	115			
Iron		4.31	mg/L	0.030	86	85	115			
Lead		0.0467	mg/L	0.010	93	85	115			
Nickel		0.0433	mg/L	0.010	87	85	115			
Selenium		0.0428	mg/L	0.0050	86	85	115			
Silver		0.0182	mg/L	0.0050	91	85	115			
Thallium		0.0470	mg/L	0.10	94	85	115			
Vanadium		0.0439	mg/L	0.10	88	85	115			
Zinc		0.0452	mg/L	0.010	89	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R71312
Sample ID: H11050359-001BMS	16	Sample Matrix Spike		Run: ICPMS204-B_110526A						05/26/11 13:16
Antimony		0.0461	mg/L	0.0050	92	70	130			
Arsenic		0.0484	mg/L	0.0050	96	70	130			
Barium		0.0786	mg/L	0.10	89	70	130			
Beryllium		0.0443	mg/L	0.0010	89	70	130			
Cadmium		0.0452	mg/L	0.0010	90	70	130			
Chromium		0.0444	mg/L	0.010	89	70	130			
Cobalt		0.0456	mg/L	0.010	91	70	130			
Copper		0.0450	mg/L	0.010	87	70	130			
Iron		4.39	mg/L	0.030	88	70	130			
Lead		0.0464	mg/L	0.010	92	70	130			
Nickel		0.0427	mg/L	0.010	85	70	130			
Selenium		0.0534	mg/L	0.0050	103	70	130			
Silver		0.0179	mg/L	0.0050	89	70	130			
Thallium		0.0462	mg/L	0.0050	92	70	130			
Vanadium		0.0447	mg/L	0.10	89	70	130			
Zinc		0.0540	mg/L	0.010	84	70	130			
Sample ID: H11050359-001BMSD	16	Sample Matrix Spike Duplicate		Run: ICPMS204-B_110526A						05/26/11 13:21
Antimony		0.0466	mg/L	0.0050	93	70	130	1.1	20	
Arsenic		0.0489	mg/L	0.0050	97	70	130	0.9	20	
Barium		0.0788	mg/L	0.10	89	70	130		20	
Beryllium		0.0438	mg/L	0.0010	88	70	130	1.3	20	
Cadmium		0.0455	mg/L	0.0010	91	70	130	0.7	20	
Chromium		0.0452	mg/L	0.010	90	70	130	1.9	20	
Cobalt		0.0460	mg/L	0.010	92	70	130	0.9	20	
Copper		0.0452	mg/L	0.010	87	70	130	0.4	20	
Iron		4.43	mg/L	0.030	88	70	130	0.8	20	
Lead		0.0467	mg/L	0.010	93	70	130	0.5	20	
Nickel		0.0428	mg/L	0.010	86	70	130	0.4	20	
Selenium		0.0536	mg/L	0.0050	103	70	130	0.4	20	
Silver		0.0182	mg/L	0.0050	91	70	130	1.9	20	
Thallium		0.0466	mg/L	0.0050	93	70	130	0.9	20	
Vanadium		0.0452	mg/L	0.10	90	70	130		20	
Zinc		0.0552	mg/L	0.010	86	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Project: MT 200, WY 2000

Client: MT DOT, WY 2000

Project: MT 200, WY 2000

Report Date: 08/01/00

Report Title: MT 200

Station	Test	Result	Acceptance	Remarks
1+00	1	1.00	1.00	
1+10	1	1.10	1.10	
1+20	1	1.20	1.20	
1+30	1	1.30	1.30	
1+40	1	1.40	1.40	
1+50	1	1.50	1.50	
1+60	1	1.60	1.60	
1+70	1	1.70	1.70	
1+80	1	1.80	1.80	
1+90	1	1.90	1.90	
2+00	1	2.00	2.00	
2+10	1	2.10	2.10	
2+20	1	2.20	2.20	
2+30	1	2.30	2.30	
2+40	1	2.40	2.40	
2+50	1	2.50	2.50	
2+60	1	2.60	2.60	
2+70	1	2.70	2.70	
2+80	1	2.80	2.80	
2+90	1	2.90	2.90	
3+00	1	3.00	3.00	
3+10	1	3.10	3.10	
3+20	1	3.20	3.20	
3+30	1	3.30	3.30	
3+40	1	3.40	3.40	
3+50	1	3.50	3.50	
3+60	1	3.60	3.60	
3+70	1	3.70	3.70	
3+80	1	3.80	3.80	
3+90	1	3.90	3.90	
4+00	1	4.00	4.00	
4+10	1	4.10	4.10	
4+20	1	4.20	4.20	
4+30	1	4.30	4.30	
4+40	1	4.40	4.40	
4+50	1	4.50	4.50	
4+60	1	4.60	4.60	
4+70	1	4.70	4.70	
4+80	1	4.80	4.80	
4+90	1	4.90	4.90	
5+00	1	5.00	5.00	
5+10	1	5.10	5.10	
5+20	1	5.20	5.20	
5+30	1	5.30	5.30	
5+40	1	5.40	5.40	
5+50	1	5.50	5.50	
5+60	1	5.60	5.60	
5+70	1	5.70	5.70	
5+80	1	5.80	5.80	
5+90	1	5.90	5.90	
6+00	1	6.00	6.00	
6+10	1	6.10	6.10	
6+20	1	6.20	6.20	
6+30	1	6.30	6.30	
6+40	1	6.40	6.40	
6+50	1	6.50	6.50	
6+60	1	6.60	6.60	
6+70	1	6.70	6.70	
6+80	1	6.80	6.80	
6+90	1	6.90	6.90	
7+00	1	7.00	7.00	
7+10	1	7.10	7.10	
7+20	1	7.20	7.20	
7+30	1	7.30	7.30	
7+40	1	7.40	7.40	
7+50	1	7.50	7.50	
7+60	1	7.60	7.60	
7+70	1	7.70	7.70	
7+80	1	7.80	7.80	
7+90	1	7.90	7.90	
8+00	1	8.00	8.00	
8+10	1	8.10	8.10	
8+20	1	8.20	8.20	
8+30	1	8.30	8.30	
8+40	1	8.40	8.40	
8+50	1	8.50	8.50	
8+60	1	8.60	8.60	
8+70	1	8.70	8.70	
8+80	1	8.80	8.80	
8+90	1	8.90	8.90	
9+00	1	9.00	9.00	
9+10	1	9.10	9.10	
9+20	1	9.20	9.20	
9+30	1	9.30	9.30	
9+40	1	9.40	9.40	
9+50	1	9.50	9.50	
9+60	1	9.60	9.60	
9+70	1	9.70	9.70	
9+80	1	9.80	9.80	
9+90	1	9.90	9.90	
10+00	1	10.00	10.00	
10+10	1	10.10	10.10	
10+20	1	10.20	10.20	
10+30	1	10.30	10.30	
10+40	1	10.40	10.40	
10+50	1	10.50	10.50	
10+60	1	10.60	10.60	
10+70	1	10.70	10.70	
10+80	1	10.80	10.80	
10+90	1	10.90	10.90	
11+00	1	11.00	11.00	
11+10	1	11.10	11.10	
11+20	1	11.20	11.20	
11+30	1	11.30	11.30	
11+40	1	11.40	11.40	
11+50	1	11.50	11.50	
11+60	1	11.60	11.60	
11+70	1	11.70	11.70	
11+80	1	11.80	11.80	
11+90	1	11.90	11.90	
12+00	1	12.00	12.00	
12+10	1	12.10	12.10	
12+20	1	12.20	12.20	
12+30	1	12.30	12.30	
12+40	1	12.40	12.40	
12+50	1	12.50	12.50	
12+60	1	12.60	12.60	
12+70	1	12.70	12.70	
12+80	1	12.80	12.80	
12+90	1	12.90	12.90	
13+00	1	13.00	13.00	
13+10	1	13.10	13.10	
13+20	1	13.20	13.20	
13+30	1	13.30	13.30	
13+40	1	13.40	13.40	
13+50	1	13.50	13.50	
13+60	1	13.60	13.60	
13+70	1	13.70	13.70	
13+80	1	13.80	13.80	
13+90	1	13.90	13.90	
14+00	1	14.00	14.00	
14+10	1	14.10	14.10	
14+20	1	14.20	14.20	
14+30	1	14.30	14.30	
14+40	1	14.40	14.40	
14+50	1	14.50	14.50	
14+60	1	14.60	14.60	
14+70	1	14.70	14.70	
14+80	1	14.80	14.80	
14+90	1	14.90	14.90	
15+00	1	15.00	15.00	
15+10	1	15.10	15.10	
15+20	1	15.20	15.20	
15+30	1	15.30	15.30	
15+40	1	15.40	15.40	
15+50	1	15.50	15.50	
15+60	1	15.60	15.60	
15+70	1	15.70	15.70	
15+80	1	15.80	15.80	
15+90	1	15.90	15.90	
16+00	1	16.00	16.00	
16+10	1	16.10	16.10	
16+20	1	16.20	16.20	
16+30	1	16.30	16.30	
16+40	1	16.40	16.40	
16+50	1	16.50	16.50	
16+60	1	16.60	16.60	
16+70	1	16.70	16.70	
16+80	1	16.80	16.80	
16+90	1	16.90	16.90	
17+00	1	17.00	17.00	
17+10	1	17.10	17.10	
17+20	1	17.20	17.20	
17+30	1	17.30	17.30	
17+40	1	17.40	17.40	
17+50	1	17.50	17.50	
17+60	1	17.60	17.60	
17+70	1	17.70	17.70	
17+80	1	17.80	17.80	
17+90	1	17.90	17.90	
18+00	1	18.00	18.00	
18+10	1	18.10	18.10	
18+20	1	18.20	18.20	
18+30	1	18.30	18.30	
18+40	1	18.40	18.40	
18+50	1	18.50	18.50	
18+60	1	18.60	18.60	
18+70	1	18.70	18.70	
18+80	1	18.80	18.80	
18+90	1	18.90	18.90	
19+00	1	19.00	19.00	
19+10	1	19.10	19.10	
19+20	1	19.20	19.20	
19+30	1	19.30	19.30	
19+40	1	19.40	19.40	
19+50	1	19.50	19.50	
19+60	1	19.60	19.60	
19+70	1	19.70	19.70	
19+80	1	19.80	19.80	
19+90	1	19.90	19.90	
20+00	1	20.00	20.00	
20+10	1	20.10	20.10	
20+20	1	20.20	20.20	
20+30	1	20.30	20.30	
20+40	1	20.40	20.40	
20+50	1	20.50	20.50	
20+60	1	20.60	20.60	
20+70	1	20.70	20.70	
20+80	1	20.80	20.80	
20+90	1	20.90	20.90	
21+00	1	21.00	21.00	
21+10	1	21.10	21.10	
21+20	1	21.20	21.20	
21+30	1	21.30	21.30	
21+40	1	21.40	21.40	
21+50	1	21.50	21.50	
21+60	1	21.60	21.60	
21+70	1	21.70	21.70	
21+80	1	21.80	21.80	
21+90	1	21.90	21.90	
22+00	1	22.00	22.00	
22+10	1	22.10	22.10	
22+20	1	22.20	22.20	
22+30	1	22.30	22.30	
22+40	1	22.40	22.40	
22+50	1	22.50	22.50	
22+60	1	22.60	22.60	
22+70	1	22.70	22.70	
22+80	1	22.80	22.80	
22+90	1	22.90	22.90	
23+00	1	23.00	23.00	
23+10	1	23.10	23.10	
23+20	1	23.20	23.20	
23+30	1	23.30	23.30	
23+40	1	23.40	23.40	
23+50	1	23.50	23.50	
23+60	1	23.60	23.60	
23+70	1	23.70	23.70	
23+80	1	23.80	23.80	
23+90	1	23.90	23.90	
24+00	1	24.00	24.00	
24+10	1	24.10	24.10	
24+20	1	24.20	24.20	
24+30	1	24.30	24.30	
24+40	1	24.40	24.40	
24+50	1	24.50	24.50	
24+60	1	24.60	24.60	
24+70	1	24.70	24.70	
24+80	1	24.80	24.80	
24+90	1	24.90	24.90	
25+00	1	25.00	25.00	
25+10	1	25.10	25.10	
25+20	1	25.20	25.20	
25+30	1	25.30	25.30	
25+40	1	25.40	25.40	
25+50	1	25.50	25.50	
25+60	1	25.60	25.60	
25+70	1	25.70	25.70	
25+80	1	25.80	25.80	
25+90	1	25.90	25.90	
26+00	1	26.00	26.00	
26+10	1	26.10	26.10	
26+20	1	26.20	26.20	
26+30	1	26.30	26.30	
26+40	1	26.40	26.40	
26+50	1	26.50	26.50	
26+60	1	26.60	26.60	
26+70	1	26.70	26.70	
26+80	1	26.80	26.80	
26+90	1	26.90	26.90	
27+00	1	27.00	27.00	
27+10	1	27.10	27.10	
27+20	1	27.20		



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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: IC102-H_110527A										
Sample ID: ICV	2	Initial Calibration Verification Standard								
Chloride		100	mg/L	1.0	105	90	110			05/27/11 15:02
Sulfate		410	mg/L	1.0	103	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								
Chloride		100	mg/L	1.0	102	90	110			05/27/11 15:48
Sulfate		400	mg/L	1.0	101	90	110			
Method: E300.0										
Batch: R71385										
Sample ID: ICB	2	Method Blank								
Chloride		ND	mg/L	0.02						05/27/11 15:13
Sulfate		ND	mg/L	0.02						
Sample ID: LFB	2	Laboratory Fortified Blank								
Chloride		51	mg/L	1.0	103	90	110			05/27/11 15:25
Sulfate		200	mg/L	1.1	100	90	110			
Sample ID: LFBD	2	Laboratory Fortified Blank								
Chloride		50	mg/L	1.0	100	90	110			05/27/11 15:37
Sulfate		200	mg/L	1.1	98	90	110			
Sample ID: H11050365-005AMS	2	Sample Matrix Spike								
Chloride		60	mg/L	1.0	103	90	110			05/27/11 17:56
Sulfate		230	mg/L	1.1	102	90	110			
Sample ID: H11050365-005AMSD	2	Sample Matrix Spike Duplicate								
Chloride		61	mg/L	1.0	105	90	110	1.4	20	05/27/11 18:07
Sulfate		240	mg/L	1.1	104	90	110	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Project: Mister M Landfill

Report Date: 06/07/11

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										
Analytical Run: FIA203-HE_110526B										
Sample ID: ICV	Initial Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N	1.04	mg/L	0.050	104	90	110				05/26/11 14:43
Sample ID: CCV	Continuing Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N	0.496	mg/L	0.050	99	90	110				05/26/11 14:47
Sample ID: ICB	Initial Calibration Blank, Instrument Blank									
Nitrogen, Nitrate+Nitrite as N	-0.00380	mg/L	0.050		0	0				05/26/11 14:49
Method: E353.2										
Batch: R71316										
Sample ID: LCS	Laboratory Control Sample									
Nitrogen, Nitrate+Nitrite as N	24.8	mg/L	0.20	102	90	110	Run: FIA203-HE_110526B			05/26/11 14:45
Sample ID: LFB	Laboratory Fortified Blank									
Nitrogen, Nitrate+Nitrite as N	0.987	mg/L	0.050	99	90	110	Run: FIA203-HE_110526B			05/26/11 14:46
Sample ID: MBLK	Method Blank									
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.01				Run: FIA203-HE_110526B			05/26/11 14:51
Sample ID: H11050365-004CMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N	0.962	mg/L	0.050	96	90	110	Run: FIA203-HE_110526B			05/26/11 15:00
Sample ID: H11050365-004CMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N	0.957	mg/L	0.050	96	90	110	Run: FIA203-HE_110526B	0.6	20	05/26/11 15:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: CCV052611A										
54 Continuing Calibration Verification Standard										
Acetone		62.4	ug/L	20	125	70	130			
Acrylonitrile		60.8	ug/L	20	122	70	130			
Benzene		5.56	ug/L	1.0	111	70	130			
Bromochloromethane		5.04	ug/L	1.0	101	70	130			
Bromodichloromethane		5.36	ug/L	1.0	107	70	130			
Bromoform		5.64	ug/L	1.0	113	70	130			
Bromomethane		6.00	ug/L	1.0	120	70	130			
Carbon disulfide		5.44	ug/L	1.0	109	70	130			
Carbon tetrachloride		4.84	ug/L	1.0	97	70	130			
Chlorobenzene		5.68	ug/L	1.0	114	70	130			
Chlorodibromomethane		5.12	ug/L	1.0	102	70	130			
Chloroethane		5.20	ug/L	1.0	104	70	130			
Chloroform		5.12	ug/L	1.0	102	80	120			
Chloromethane		5.56	ug/L	1.0	111	70	130			
1,2-Dibromo-3-chloropropane		5.72	ug/L	1.0	114	70	130			
1,2-Dibromoethane		4.80	ug/L	1.0	96	70	130			
Dibromomethane		5.36	ug/L	1.0	107	70	130			
1,2-Dichlorobenzene		5.96	ug/L	1.0	119	70	130			
1,4-Dichlorobenzene		5.40	ug/L	1.0	108	70	130			
trans-1,4-Dichloro-2-butene		4.92	ug/L	1.0	98	70	130			
Dichlorodifluoromethane		5.96	ug/L	1.0	119	70	130			
1,1-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,2-Dichloroethane		5.96	ug/L	1.0	119	70	130			
1,1-Dichloroethene		5.36	ug/L	1.0	107	80	120			
cis-1,2-Dichloroethene		5.44	ug/L	1.0	109	70	130			
trans-1,2-Dichloroethene		5.48	ug/L	1.0	110	70	130			
1,2-Dichloropropane		5.60	ug/L	1.0	112	80	120			
cis-1,3-Dichloropropene		5.56	ug/L	1.0	111	70	130			
trans-1,3-Dichloropropene		5.72	ug/L	1.0	114	70	130			
Ethylbenzene		5.64	ug/L	1.0	113	80	120			
2-Hexanone		56.4	ug/L	20	113	70	130			
Iodomethane		5.88	ug/L	1.0	118	70	130			
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		55.6	ug/L	20	111	70	130			
Methylene chloride		5.72	ug/L	1.0	114	70	130			
Styrene		5.48	ug/L	1.0	110	70	130			
1,1,1,2-Tetrachloroethane		5.52	ug/L	1.0	110	70	130			
1,1,1,2,2-Tetrachloroethane		5.72	ug/L	1.0	114	70	130			
Tetrachloroethene		5.24	ug/L	1.0	105	70	130			
Toluene		5.56	ug/L	1.0	111	80	120			
1,1,1-Trichloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2-Trichloroethane		5.76	ug/L	1.0	115	70	130			
Trichloroethene		5.12	ug/L	1.0	102	70	130			
Trichlorofluoromethane		4.80	ug/L	1.0	96	70	130			

Analytical Run: R71340

05/26/11 10:12

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R71340
Sample ID: CCV052611A	54	Continuing Calibration Verification Standard								05/26/11 10:12
1,2,3-Trichloropropane		5.84	ug/L	1.0	117	70	130			
Vinyl acetate		6.28	ug/L	1.0	126	70	130			
Vinyl chloride		5.96	ug/L	1.0	119	80	120			
m+p-Xylenes		11.4	ug/L	1.0	114	70	130			
o-Xylene		5.72	ug/L	1.0	114	70	130			
Xylenes, Total		17.2	ug/L	1.0	114	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	104	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	94	70	130			
Surr: Toluene-d8				1.0	87	70	130			

Method: SW8260B										Batch: R71340
Sample ID: LCS052611A	54	Laboratory Control Sample								05/26/11 10:51
				Run: 1SATURN_110526A						
Acetone		54.0	ug/L	20	108	70	130			
Acrylonitrile		55.6	ug/L	20	111	70	130			
Benzene		5.04	ug/L	1.0	101	70	130			
Bromochloromethane		4.72	ug/L	1.0	94	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		5.04	ug/L	1.0	101	70	130			
Bromomethane		6.00	ug/L	1.0	120	70	130			
Carbon disulfide		5.76	ug/L	1.0	115	70	130			
Carbon tetrachloride		4.60	ug/L	1.0	92	70	130			
Chlorobenzene		5.24	ug/L	1.0	105	70	130			
Chlorodibromomethane		4.88	ug/L	1.0	98	70	130			
Chloroethane		5.44	ug/L	1.0	109	70	130			
Chloroform		4.80	ug/L	1.0	96	70	130			
Chloromethane		6.08	ug/L	1.0	122	70	130			
1,2-Dibromo-3-chloropropane		5.20	ug/L	1.0	104	70	130			
1,2-Dibromoethane		4.52	ug/L	1.0	90	70	130			
Dibromomethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichlorobenzene		5.36	ug/L	1.0	107	70	130			
1,4-Dichlorobenzene		5.32	ug/L	1.0	106	70	130			
trans-1,4-Dichloro-2-butene		5.00	ug/L	1.0	100	70	130			
Dichlorodifluoromethane		6.48	ug/L	1.0	130	70	130			
1,1-Dichloroethane		5.16	ug/L	1.0	103	70	130			
1,2-Dichloroethane		5.24	ug/L	1.0	105	70	130			
1,1-Dichloroethene		4.88	ug/L	1.0	98	70	130			
cis-1,2-Dichloroethene		5.04	ug/L	1.0	101	70	130			
trans-1,2-Dichloroethene		5.08	ug/L	1.0	102	70	130			
1,2-Dichloropropane		5.24	ug/L	1.0	105	70	130			
cis-1,3-Dichloropropene		5.16	ug/L	1.0	103	70	130			
trans-1,3-Dichloropropene		5.08	ug/L	1.0	102	70	130			
Ethylbenzene		5.28	ug/L	1.0	106	70	130			
2-Hexanone		50.4	ug/L	20	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: LCS052611A	54	Laboratory Control Sample		Run: 1SATURN_110526A						
Iodomethane		4.96	ug/L	1.0	99	70	130			
Methyl ethyl ketone		52.8	ug/L	20	106	70	130			
Methyl isobutyl ketone		51.2	ug/L	20	102	70	130			
Methylene chloride		5.12	ug/L	1.0	102	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		5.36	ug/L	1.0	107	70	130			
1,1,2,2-Tetrachloroethane		5.04	ug/L	1.0	101	70	130			
Tetrachloroethene		5.08	ug/L	1.0	102	70	130			
Toluene		4.32	ug/L	1.0	86	70	130			
1,1,1-Trichloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2-Trichloroethane		5.36	ug/L	1.0	107	70	130			
Trichloroethene		4.96	ug/L	1.0	99	70	130			
Trichlorofluoromethane		4.64	ug/L	1.0	93	70	130			
1,2,3-Trichloropropane		4.16	ug/L	1.0	83	70	130			
Vinyl acetate		7.16	ug/L	1.0	143	70	130			S
Vinyl chloride		5.92	ug/L	1.0	118	70	130			
m+p-Xylenes		10.6	ug/L	1.0	106	70	130			
o-Xylene		5.32	ug/L	1.0	106	70	130			
Xylenes, Total		16.0	ug/L	1.0	106	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	103	70	130			
Surr: Dibromofluoromethane				1.0	92	70	130			
Surr: p-Bromofluorobenzene				1.0	91	70	130			
Surr: Toluene-d8				1.0	85	70	130			
Sample ID: MB052611A										
54	Method Blank		Run: 1SATURN_110526A							05/26/11 12:00
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71340
Sample ID: MB052611A	54	Method Blank					Run: 1SATURN_110526A			05/26/11 12:00
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R71387
Sample ID: CCV052711A										05/27/11 12:40
53 Continuing Calibration Verification Standard										
Acetone		62.0	ug/L	20	124	70	130			
Acrylonitrile		60.4	ug/L	20	121	70	130			
Benzene		5.60	ug/L	1.0	112	70	130			
Bromochloromethane		5.12	ug/L	1.0	102	70	130			
Bromodichloromethane		5.40	ug/L	1.0	108	70	130			
Bromoform		5.44	ug/L	1.0	109	70	130			
Bromomethane		4.72	ug/L	1.0	94	70	130			
Carbon disulfide		5.64	ug/L	1.0	113	70	130			
Carbon tetrachloride		5.00	ug/L	1.0	100	70	130			
Chlorobenzene		5.60	ug/L	1.0	112	70	130			
Chlorodibromomethane		5.00	ug/L	1.0	100	70	130			
Chloroethane		5.28	ug/L	1.0	106	70	130			
Chloroform		5.08	ug/L	1.0	102	80	120			
Chloromethane		5.20	ug/L	1.0	104	70	130			
1,2-Dibromo-3-chloropropane		5.44	ug/L	1.0	109	70	130			
1,2-Dibromoethane		4.80	ug/L	1.0	96	70	130			
Dibromomethane		5.40	ug/L	1.0	108	70	130			
1,2-Dichlorobenzene		5.68	ug/L	1.0	114	70	130			
1,4-Dichlorobenzene		5.40	ug/L	1.0	108	70	130			
trans-1,4-Dichloro-2-butene		5.40	ug/L	1.0	108	70	130			
Dichlorodifluoromethane		6.28	ug/L	1.0	126	70	130			
1,1-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,2-Dichloroethane		5.80	ug/L	1.0	116	70	130			
1,1-Dichloroethene		5.72	ug/L	1.0	114	80	120			
cis-1,2-Dichloroethene		5.68	ug/L	1.0	114	70	130			
trans-1,2-Dichloroethene		5.60	ug/L	1.0	112	70	130			
1,2-Dichloropropane		5.96	ug/L	1.0	119	80	120			
cis-1,3-Dichloropropene		5.76	ug/L	1.0	115	70	130			
trans-1,3-Dichloropropene		5.68	ug/L	1.0	114	70	130			
Ethylbenzene		5.72	ug/L	1.0	114	80	120			
2-Hexanone		57.6	ug/L	20	115	70	130			
Iodomethane		6.16	ug/L	1.0	123	70	130			
Methyl ethyl ketone		57.2	ug/L	20	114	70	130			
Methyl isobutyl ketone		55.2	ug/L	20	110	70	130			
Methylene chloride		5.72	ug/L	1.0	114	70	130			
Styrene		5.52	ug/L	1.0	110	70	130			
1,1,1,2-Tetrachloroethane		5.40	ug/L	1.0	108	70	130			
1,1,2,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
Tetrachloroethene		5.60	ug/L	1.0	112	70	130			
Toluene		5.60	ug/L	1.0	112	80	120			
1,1,1-Trichloroethane		5.72	ug/L	1.0	114	70	130			
1,1,2-Trichloroethane		5.80	ug/L	1.0	116	70	130			
Trichloroethene		5.28	ug/L	1.0	106	70	130			
Trichlorofluoromethane		5.04	ug/L	1.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R71387
Sample ID: CCV052711A	53	Continuing Calibration Verification Standard								05/27/11 12:40
1,2,3-Trichloropropane		5.72	ug/L	1.0	114	70	130			
Vinyl chloride		5.88	ug/L	1.0	118	80	120			
m+p-Xylenes		11.8	ug/L	1.0	118	70	130			
o-Xylene		6.08	ug/L	1.0	122	70	130			
Xylenes, Total		17.9	ug/L	1.0	119	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	99	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			
Surr: p-Bromofluorobenzene				1.0	88	70	130			
Surr: Toluene-d8				1.0	84	70	130			

Method: SW8260B										Batch: R71387
Sample ID: LCS052711C	53	Laboratory Control Sample								Run: 1SATURN_110527A
Acetone		55.2	ug/L	20	110	70	130			05/27/11 14:48
Acrylonitrile		59.2	ug/L	20	118	70	130			
Benzene		5.32	ug/L	1.0	106	70	130			
Bromochloromethane		4.84	ug/L	1.0	97	70	130			
Bromodichloromethane		5.16	ug/L	1.0	103	70	130			
Bromoform		5.24	ug/L	1.0	105	70	130			
Bromomethane		4.64	ug/L	1.0	93	70	130			
Carbon disulfide		5.32	ug/L	1.0	106	70	130			
Carbon tetrachloride		4.48	ug/L	1.0	90	70	130			
Chlorobenzene		5.52	ug/L	1.0	110	70	130			
Chlorodibromomethane		4.76	ug/L	1.0	95	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		5.04	ug/L	1.0	101	70	130			
Chloromethane		5.68	ug/L	1.0	114	70	130			
1,2-Dibromo-3-chloropropane		5.68	ug/L	1.0	114	70	130			
1,2-Dibromoethane		4.64	ug/L	1.0	93	70	130			
Dibromomethane		5.16	ug/L	1.0	103	70	130			
1,2-Dichlorobenzene		5.44	ug/L	1.0	109	70	130			
1,4-Dichlorobenzene		5.12	ug/L	1.0	102	70	130			
trans-1,4-Dichloro-2-butene		5.08	ug/L	1.0	102	70	130			
Dichlorodifluoromethane		6.48	ug/L	1.0	130	70	130			
1,1-Dichloroethane		5.36	ug/L	1.0	107	70	130			
1,2-Dichloroethane		5.72	ug/L	1.0	114	70	130			
1,1-Dichloroethene		4.84	ug/L	1.0	97	70	130			
cis-1,2-Dichloroethene		5.24	ug/L	1.0	105	70	130			
trans-1,2-Dichloroethene		4.80	ug/L	1.0	96	70	130			
1,2-Dichloropropane		5.68	ug/L	1.0	114	70	130			
cis-1,3-Dichloropropene		5.40	ug/L	1.0	108	70	130			
trans-1,3-Dichloropropene		5.44	ug/L	1.0	109	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		48.8	ug/L	20	98	70	130			
Iodomethane		5.04	ug/L	1.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: LCS052711C	53	Laboratory Control Sample				Run: 1SATURN_110527A				05/27/11 14:48
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		52.0	ug/L	20	104	70	130			
Methylene chloride		5.24	ug/L	1.0	105	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		5.04	ug/L	1.0	101	70	130			
1,1,2,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
Tetrachloroethene		5.08	ug/L	1.0	102	70	130			
Toluene		4.56	ug/L	1.0	91	70	130			
1,1,1-Trichloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2-Trichloroethane		5.72	ug/L	1.0	114	70	130			
Trichloroethene		5.16	ug/L	1.0	103	70	130			
Trichlorofluoromethane		4.36	ug/L	1.0	87	70	130			
1,2,3-Trichloropropane		5.52	ug/L	1.0	110	70	130			
Vinyl chloride		5.88	ug/L	1.0	118	70	130			
m+p-Xylenes		11.1	ug/L	1.0	111	70	130			
o-Xylene		5.48	ug/L	1.0	110	70	130			
Xylenes, Total		16.6	ug/L	1.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	102	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			
Sample ID: H11050365-001DMS										05/27/11 15:25
53	Sample Matrix Spike					Run: 1SATURN_110527A				
Acetone		122	ug/L	40	122	70	130			
Acrylonitrile		107	ug/L	40	107	70	130			
Benzene		10.6	ug/L	2.0	106	70	130			
Bromochloromethane		10.2	ug/L	2.0	102	70	130			
Bromodichloromethane		10.2	ug/L	2.0	102	70	130			
Bromoform		10.4	ug/L	2.0	104	70	130			
Bromomethane		10.6	ug/L	2.0	106	70	130			
Carbon disulfide		10.0	ug/L	2.0	100	70	130			
Carbon tetrachloride		8.96	ug/L	2.0	90	70	130			
Chlorobenzene		10.8	ug/L	2.0	108	70	130			
Chlorodibromomethane		9.60	ug/L	2.0	96	70	130			
Chloroethane		13.3	ug/L	2.0	133	70	130			S
Chloroform		10.3	ug/L	2.0	103	70	130			
Chloromethane		11.4	ug/L	2.0	114	70	130			
1,2-Dibromo-3-chloropropane		11.1	ug/L	2.0	111	70	130			
1,2-Dibromoethane		8.96	ug/L	2.0	90	70	130			
Dibromomethane		10.6	ug/L	2.0	106	70	130			
1,2-Dichlorobenzene		11.1	ug/L	2.0	111	70	130			
1,4-Dichlorobenzene		10.4	ug/L	2.0	104	70	130			
trans-1,4-Dichloro-2-butene		9.92	ug/L	2.0	99	70	130			
Dichlorodifluoromethane		13.6	ug/L	2.0	131	70	130			S

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: H11050365-001DMS	53	Sample Matrix Spike			Run: 1SATURN_110527A				05/27/11 15:25	
1,1-Dichloroethane		10.3	ug/L	2.0	103	70	130			
1,2-Dichloroethane		11.7	ug/L	2.0	117	70	130			
1,1-Dichloroethene		9.28	ug/L	2.0	93	70	130			
cis-1,2-Dichloroethene		28.4	ug/L	2.0	107	70	130			
trans-1,2-Dichloroethene		10.0	ug/L	2.0	100	70	130			
1,2-Dichloropropane		12.0	ug/L	2.0	120	70	130			
cis-1,3-Dichloropropene		10.6	ug/L	2.0	106	70	130			
trans-1,3-Dichloropropene		10.7	ug/L	2.0	107	70	130			
Ethylbenzene		10.5	ug/L	2.0	105	70	130			
2-Hexanone		106	ug/L	40	106	70	130			
Iodomethane		9.68	ug/L	2.0	97	70	130			
Methyl ethyl ketone		128	ug/L	40	128	70	130			
Methyl isobutyl ketone		109	ug/L	40	109	70	130			
Methylene chloride		10.3	ug/L	2.0	103	70	130			
Styrene		10.4	ug/L	2.0	104	70	130			
1,1,1,2-Tetrachloroethane		10.4	ug/L	2.0	104	70	130			
1,1,2,2-Tetrachloroethane		9.92	ug/L	2.0	99	70	130			
Tetrachloroethene		11.0	ug/L	2.0	100	70	130			
Toluene		9.04	ug/L	2.0	90	70	130			
1,1,1-Trichloroethane		10.0	ug/L	2.0	100	70	130			
1,1,2-Trichloroethane		11.6	ug/L	2.0	116	70	130			
Trichloroethene		10.1	ug/L	2.0	96	70	130			
Trichlorofluoromethane		8.56	ug/L	2.0	86	70	130			
1,2,3-Trichloropropane		10.0	ug/L	2.0	100	70	130			
Vinyl chloride		11.4	ug/L	2.0	114	70	130			
m+p-Xylenes		21.8	ug/L	2.0	109	70	130			
o-Xylene		11.4	ug/L	2.0	114	70	130			
Xylenes, Total		33.2	ug/L	2.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	109	70	130			
Surr: Dibromofluoromethane				2.0	96	70	130			
Surr: p-Bromofluorobenzene				2.0	94	70	130			
Surr: Toluene-d8				2.0	83	70	130			
Sample ID: H11050365-001DMSD	53	Sample Matrix Spike Duplicate			Run: 1SATURN_110527A				05/27/11 15:56	
Acetone		117	ug/L	40	117	70	130	4.7	20	
Acrylonitrile		110	ug/L	40	110	70	130	2.9	20	
Benzene		10.4	ug/L	2.0	104	70	130	1.5	20	
Bromochloromethane		9.52	ug/L	2.0	95	70	130	6.5	20	
Bromodichloromethane		9.76	ug/L	2.0	98	70	130	4.8	20	
Bromoform		10.1	ug/L	2.0	101	70	130	3.1	20	
Bromomethane		10.2	ug/L	2.0	102	70	130	3.9	20	
Carbon disulfide		10.5	ug/L	2.0	105	70	130	4.7	20	
Carbon tetrachloride		9.04	ug/L	2.0	90	70	130	0.9	20	
Chlorobenzene		10.4	ug/L	2.0	104	70	130	3.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: H11050365-001DMSD	53	Sample Matrix Spike Duplicate				Run: 1SATURN_110527A				05/27/11 15:56
Chlorodibromomethane		9.52	ug/L	2.0	95	70	130	0.8	20	
Chloroethane		12.2	ug/L	2.0	122	70	130	8.2	20	
Chloroform		9.68	ug/L	2.0	97	70	130	6.4	20	
Chloromethane		10.4	ug/L	2.0	104	70	130	8.8	20	
1,2-Dibromo-3-chloropropane		10.2	ug/L	2.0	102	70	130	8.2	20	
1,2-Dibromoethane		8.96	ug/L	2.0	90	70	130	0.0	20	
Dibromomethane		9.92	ug/L	2.0	99	70	130	7.0	20	
1,2-Dichlorobenzene		10.6	ug/L	2.0	106	70	130	4.4	20	
1,4-Dichlorobenzene		10.2	ug/L	2.0	102	70	130	2.3	20	
trans-1,4-Dichloro-2-butene		10.4	ug/L	2.0	104	70	130	4.7	20	
Dichlorodifluoromethane		13.0	ug/L	2.0	124	70	130	4.8	20	
1,1-Dichloroethane		10.0	ug/L	2.0	100	70	130	3.1	20	
1,2-Dichloroethane		11.3	ug/L	2.0	113	70	130	3.5	20	
1,1-Dichloroethene		8.96	ug/L	2.0	90	70	130	3.5	20	
cis-1,2-Dichloroethene		28.1	ug/L	2.0	104	70	130	1.1	20	
trans-1,2-Dichloroethene		9.68	ug/L	2.0	97	70	130	3.3	20	
1,2-Dichloropropane		10.9	ug/L	2.0	109	70	130	9.8	20	
cis-1,3-Dichloropropene		10.2	ug/L	2.0	102	70	130	3.8	20	
trans-1,3-Dichloropropene		10.6	ug/L	2.0	106	70	130	1.5	20	
Ethylbenzene		10.3	ug/L	2.0	103	70	130	1.5	20	
2-Hexanone		102	ug/L	40	102	70	130	3.1	20	
Iodomethane		10.0	ug/L	2.0	100	70	130	3.3	20	
Methyl ethyl ketone		120	ug/L	40	120	70	130	6.5	20	
Methyl isobutyl ketone		107	ug/L	40	107	70	130	1.5	20	
Methylene chloride		9.84	ug/L	2.0	98	70	130	4.8	20	
Styrene		9.92	ug/L	2.0	99	70	130	4.7	20	
1,1,1,2-Tetrachloroethane		11.3	ug/L	2.0	113	70	130	8.1	20	
1,1,2,2-Tetrachloroethane		10.3	ug/L	2.0	103	70	130	4.0	20	
Tetrachloroethene		10.6	ug/L	2.0	96	70	130	3.7	20	
Toluene		8.96	ug/L	2.0	90	70	130	0.9	20	
1,1,1-Trichloroethane		9.76	ug/L	2.0	98	70	130	2.4	20	
1,1,2-Trichloroethane		11.0	ug/L	2.0	110	70	130	5.7	20	
Trichloroethene		9.76	ug/L	2.0	93	70	130	3.2	20	
Trichlorofluoromethane		8.40	ug/L	2.0	84	70	130	1.9	20	
1,2,3-Trichloropropane		10.1	ug/L	2.0	101	70	130	0.8	20	
Vinyl chloride		11.4	ug/L	2.0	114	70	130	0.0	20	
m+p-Xylenes		20.5	ug/L	2.0	102	70	130	6.1	20	
o-Xylene		11.0	ug/L	2.0	110	70	130	3.6	20	
Xylenes, Total		31.5	ug/L	2.0	105	70	130	5.2	20	
Surr: 1,2-Dichloroethane-d4				2.0	102	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	94	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	98	70	130	0.0	20	
Surr: Toluene-d8				2.0	84	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71387
Sample ID: MB052711A	53	Method Blank					Run: 1SATURN_110527A			05/27/11 16:57
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: MB052711A	53	Method Blank			Run: 1SATURN_110527A				Batch: R71387	
1,2,3-Trichloropropane		ND	ug/L	1.0						05/27/11 16:57
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: R71461		
Sample ID: CCV060111A	5	Continuing Calibration Verification Standard								06/01/11 10:02
Vinyl acetate		5.36	ug/L	1.0	107	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	114	70	130			
Surr: Dibromofluoromethane				1.0	108	70	130			
Surr: p-Bromofluorobenzene				1.0	102	70	130			
Surr: Toluene-d8				1.0	96	70	130			
Method: SW8260B								Batch: R71461		
Sample ID: LCS060111A	5	Laboratory Control Sample								06/01/11 11:15
Vinyl acetate		6.48	ug/L	1.0	130	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	112	70	130			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	92	70	130			
Sample ID: MB060111A	5	Method Blank								06/01/11 12:31
Vinyl acetate		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	113	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	102	70	130			
Surr: Toluene-d8				1.0	94	70	130			
Sample ID: LCS052711C	5	Laboratory Control Sample								05/27/11 14:48
Vinyl acetate		7.60	ug/L	1.0	152	70	130			S
Surr: 1,2-Dichloroethane-d4				1.0	102	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	84	70	130			
Sample ID: H11050365-001DMS	5	Sample Matrix Spike								05/27/11 15:25
Vinyl acetate		15.5	ug/L	2.0	155	70	130			S
Surr: 1,2-Dichloroethane-d4				2.0	109	70	130			
Surr: Dibromofluoromethane				2.0	96	70	130			
Surr: p-Bromofluorobenzene				2.0	94	70	130			
Surr: Toluene-d8				2.0	83	70	130			
Sample ID: H11050365-001DMSD	5	Sample Matrix Spike Duplicate								05/27/11 15:56
Vinyl acetate		15.2	ug/L	2.0	152	70	130	2.1	20	S
Surr: 1,2-Dichloroethane-d4				2.0	102	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	94	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	98	70	130	0.0	20	
Surr: Toluene-d8				2.0	84	70	130	0.0	20	
Sample ID: MB052711A	5	Method Blank								05/27/11 16:57
Vinyl acetate		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: MT DEQ-Waste and Tank

Report Date: 06/07/11

Project: Mister M Landfill

Work Order: H11050365

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R71461
Sample ID: MB052711A	5	Method Blank								05/27/11 16:57
Surr: p-Bromofluorobenzene				1.0	92	70	130			
Surr: Toluene-d8				1.0	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

GAO Summary Report

Presented by request, MO Report

Client: MT DOD Health and Family Services
Project: Health Services

Activity	Count	Hours	Cost	Rate	MT DOD Health and Family Services	GAO
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10
Health Services	10	10	10	10	10	10

Workorder Receipt Checklist



H11050365

Login completed by: Esther L. Merritt
Reviewed by: BL2000\wjohnson
Reviewed Date: 6/7/2011

Date Received: 5/25/2011

Received by: elm

Carrier Hand Del
name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	5.0°C On Ice		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DER Solid Waste Section	Project Name, PWS, Permit, Etc. Myster M Landfill	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: 1520 E. Sixth Ave, Helena, MT 59620	Contact Name: Martin Van Dant	Phone/Fax: 444-2802	Email: mvanhoort@mt.gov
Invoice Address: Sam	Invoice Contact & Phone: Sam	Purchase Order:	Sampler: (Please Print) Martin Van Dant
		Quote/Bottle Order: 7799	

Special Report/Formats:

- ☐ DW
☐ POTW/WWTP
☒ State: Solid Waste
☐ Other: _____
- ☐ EDD/EDT (Electronic Data)
Format: _____
☐ LEVEL IV
☐ NELAC

Number of Containers
Sample Type: A W S V B O D W
Air Water Soils Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

R
U
S
H

Contact ELI prior to
RUSH sample submittal
for charges and
scheduling - See
Instruction Page

Comments:

Shipped by:

HAND
Cooler ID(s):
4

Receipt Temp

5.0 °COn Ice: ☒ Y ☐ N

Custody Seal

On Bottle Y ☒ NOn Cooler Y ☒ NIntact Y ☐ NSignature Match Y ☐ N**LABORATORY USE ONLY**
111050365

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
---	--------------------	--------------------	--------

1 M-M MW-9R	5/23/11	1710	W	X	X	X	X
2 M-M MW-9R-DUP	5/23/11	1715					
3 M-M-MW-OW	5/24/11	1035					
4 M-M-MW-11	5/24/11	1525					
5 M-M-MW-HW	5/24/11	1700					
6 M-M-MW-12	5/25/11	1229					
7							
8							
9							
10							

**Custody
Record
MUST be
Signed**

Relinquished by (print):

Relinquished by (print):

Date/Time:

Date/Time:

Signature:

Signature:

Received by (print):

Received by (print):

Date/Time:

Date/Time:

Signature:

Signature:

Sample Disposal: Return to Client:

Lab Disposal:

Received by Laboratory:

Date/Time:

Signature:

Esther M. Merrell 5-24-11 17:12

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Classical

County Fergus

Facility & # Master M #302

Closure

Landfarm

Finan Assur

Liner

GW Corr Meas

Methane

GW Monitoring

O & M

GW Reports

Run-on

Inspections

Other: _____

****INVOICE AND REPORT ****

RECEIVED

NOV 23 2010

DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

MT DEQ
Martin VanOort
PO Box 200901
Helena MT 59620

ANALYTICAL SUMMARY REPORT

November 21, 2010

MT DEQ
PO Box 200901
Helena, MT 59620-0901

Workorder No.: H10100425

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 6 samples for MT DEQ on 10/27/2010 for analysis.

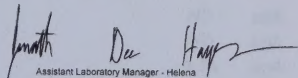
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10100425-001	MrM-MW-OW	10/25/10 17:05	10/27/10	Aqueous	Metals by ICP/ICPMS, Dissolved Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H10100425-002	MrM-MW-9R	10/26/10 8:25	10/27/10	Aqueous	Same As Above
H10100425-003	MrM-MW-11	10/26/10 12:00	10/27/10	Aqueous	Same As Above
H10100425-004	MrM-MW-12	10/27/10 9:10	10/27/10	Aqueous	Same As Above
H10100425-005	MrM-MW-12-DUP	10/27/10 9:15	10/27/10	Aqueous	Same As Above
H10100425-006	TB 101210RTHCL1617 062110-3	10/25/10 17:05	10/27/10	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

This report was prepared by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



Assistant Laboratory Manager - Helena

Digitally signed by
Jon Hager

Date: 2010.11.21 13:40:59 -07:00

ANALYTICAL SUMMARY REPORT

Report No: 101010

10/10/2018

10/10/2018

10/10/2018

10/10/2018

10/10/2018

10/10/2018

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
101010-001	101010-001	101010-001	101010-001	101010-001	101010-001
101010-002	101010-002	101010-002	101010-002	101010-002	101010-002
101010-003	101010-003	101010-003	101010-003	101010-003	101010-003
101010-004	101010-004	101010-004	101010-004	101010-004	101010-004
101010-005	101010-005	101010-005	101010-005	101010-005	101010-005
101010-006	101010-006	101010-006	101010-006	101010-006	101010-006
101010-007	101010-007	101010-007	101010-007	101010-007	101010-007
101010-008	101010-008	101010-008	101010-008	101010-008	101010-008
101010-009	101010-009	101010-009	101010-009	101010-009	101010-009
101010-010	101010-010	101010-010	101010-010	101010-010	101010-010

The report was generated by the system on 10/10/2018 at 10:10:10 AM. The report contains the following information:

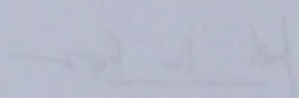
The report is generated by the system on 10/10/2018 at 10:10:10 AM.

The report is generated by the system on 10/10/2018 at 10:10:10 AM.

Digitally signed by

John Doe

DN: cn=John Doe, o=Example Corp



Report generated by:



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-001
Client Sample ID MrM-MW-OW

Report Date: 11/21/10
Collection Date: 10/25/10 17:05
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.2	s.u.		0.1		A4500-H B	10/29/10 17:46 / zeg
Conductivity	646	umhos/cm		1		A2510 B	11/01/10 13:30 / zeg
INORGANICS							
Chloride	17	mg/L		1		E300.0	11/02/10 00:56 / zeg
Sulfate	5	mg/L		1		E300.0	11/02/10 00:56 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/28/10 14:16 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	11/08/10 23:42 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/08/10 23:42 / dck
Barium	ND	mg/L		0.1		E200.8	11/08/10 23:42 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/08/10 23:42 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/08/10 23:42 / dck
Chromium	ND	mg/L		0.01		E200.8	11/08/10 23:42 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/08/10 23:42 / dck
Copper	ND	mg/L		0.01		E200.8	11/08/10 23:42 / dck
Iron	0.81	mg/L		0.03		E200.8	11/08/10 23:42 / dck
Lead	ND	mg/L		0.01		E200.8	11/08/10 23:42 / dck
Nickel	ND	mg/L		0.01		E200.8	11/08/10 23:42 / dck
Selenium	ND	mg/L		0.005		E200.8	11/08/10 23:42 / dck
Silver	ND	mg/L		0.005		E200.8	11/11/10 12:32 / dck
Thallium	ND	mg/L		0.005		E200.8	11/08/10 23:42 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/08/10 23:42 / dck
Zinc	0.46	mg/L		0.01		E200.8	11/08/10 23:42 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 18:23 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 18:23 / abb
Benzene	0.74	ug/L	J	1.0		SW8260B	11/02/10 18:23 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-001
Client Sample ID MrM-MW-OW

Report Date: 11/21/10
Collection Date: 10/25/10 17:05
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
cis-1,2-Dichloroethene	20	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Ethylbenzene	1.6	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 18:23 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 18:23 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 18:23 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Styrene	1.8	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Vinyl chloride	0.57	ug/L	J	1.0		SW8260B	11/02/10 18:23 / abb
m+p-Xylenes	0.41	ug/L	J	1.0		SW8260B	11/02/10 18:23 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 18:23 / abb
Xylenes, Total	0.41	ug/L	J	1.0		SW8260B	11/02/10 18:23 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	11/02/10 18:23 / abb
Surr: Dibromofluoromethane	94.0	%REC		70-130		SW8260B	11/02/10 18:23 / abb
Surr: p-Bromofluorobenzene	109	%REC		70-130		SW8260B	11/02/10 18:23 / abb
Surr: Toluene-d8	108	%REC		70-130		SW8260B	11/02/10 18:23 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-002
Client Sample ID MrM-MW-9R

Report Date: 11/21/10
Collection Date: 10/26/10 08:25
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.1	s.u.		0.1		A4500-H B	10/29/10 17:50 / zeg
Conductivity	896	umhos/cm		1		A2510 B	11/01/10 13:31 / zeg
INORGANICS							
Chloride	17	mg/L		1		E300.0	11/02/10 01:12 / zeg
Sulfate	68	mg/L		1		E300.0	11/02/10 01:12 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	2.95	mg/L		0.05		E353.2	10/28/10 14:18 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	11/09/10 00:05 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/09/10 00:05 / dck
Barium	ND	mg/L		0.1		E200.8	11/10/10 22:03 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/09/10 00:05 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/10/10 22:03 / dck
Chromium	ND	mg/L		0.01		E200.8	11/09/10 00:05 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/09/10 00:05 / dck
Copper	ND	mg/L		0.01		E200.8	11/09/10 00:05 / dck
Iron	ND	mg/L		0.03		E200.8	11/09/10 00:05 / dck
Lead	ND	mg/L		0.01		E200.8	11/10/10 22:03 / dck
Nickel	ND	mg/L		0.01		E200.8	11/09/10 00:05 / dck
Selenium	ND	mg/L		0.005		E200.8	11/09/10 00:05 / dck
Silver	ND	mg/L		0.005		E200.8	11/11/10 12:35 / dck
Thallium	ND	mg/L		0.005		E200.8	11/10/10 22:03 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/09/10 00:05 / dck
Zinc	ND	mg/L		0.01		E200.8	11/09/10 00:05 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 18:53 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 18:53 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-002
Client Sample ID MrM-MW-9R

Report Date: 11/21/10
Collection Date: 10/26/10 08:25
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
cis-1,2-Dichloroethene	3.8	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 18:53 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 18:53 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 18:53 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Tetrachloroethene	0.33	ug/L	J	1.0		SW8260B	11/02/10 18:53 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/02/10 18:53 / abb
Surr: 1,2-Dichloroethane-d4	103	%REC		70-130		SW8260B	11/02/10 18:53 / abb
Surr: Dibromofluoromethane	96.0	%REC		70-130		SW8260B	11/02/10 18:53 / abb
Surr: p-Bromofluorobenzene	107	%REC		70-130		SW8260B	11/02/10 18:53 / abb
Surr: Toluene-d8	104	%REC		70-130		SW8260B	11/02/10 18:53 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-003
Client Sample ID MrM-MW-11

Report Date: 11/21/10
Collection Date: 10/26/10 12:00
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.2	s.u.		0.1		A4500-H B	10/29/10 17:57 / zeg
Conductivity	655	umhos/cm		1		A2510 B	11/01/10 13:32 / zeg
INORGANICS							
Chloride	3	mg/L		1		E300.0	11/02/10 02:01 / zeg
Sulfate	42	mg/L		1		E300.0	11/02/10 02:01 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/28/10 14:20 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	11/09/10 00:10 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/09/10 00:10 / dck
Barium	ND	mg/L		0.1		E200.8	11/10/10 22:06 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/09/10 00:10 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/10/10 22:06 / dck
Chromium	ND	mg/L		0.01		E200.8	11/09/10 00:10 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/09/10 00:10 / dck
Copper	ND	mg/L		0.01		E200.8	11/09/10 00:10 / dck
Iron	0.11	mg/L		0.03		E200.8	11/09/10 00:10 / dck
Lead	ND	mg/L		0.01		E200.8	11/10/10 22:06 / dck
Nickel	ND	mg/L		0.01		E200.8	11/09/10 00:10 / dck
Selenium	ND	mg/L		0.005		E200.8	11/09/10 00:10 / dck
Silver	ND	mg/L		0.005		E200.8	11/11/10 12:38 / dck
Thallium	ND	mg/L		0.005		E200.8	11/10/10 22:06 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/09/10 00:10 / dck
Zinc	ND	mg/L		0.01		E200.8	11/09/10 00:10 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 19:23 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 19:23 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-003
Client Sample ID MrM-MW-11

Report Date: 11/21/10
Collection Date: 10/26/10 12:00
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 19:23 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 19:23 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 19:23 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/02/10 19:23 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	11/02/10 19:23 / abb
Surr: Dibromofluoromethane	93.0	%REC		70-130		SW8260B	11/02/10 19:23 / abb
Surr: p-Bromofluorobenzene	102	%REC		70-130		SW8260B	11/02/10 19:23 / abb
Surr: Toluene-d8	108	%REC		70-130		SW8260B	11/02/10 19:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-004
Client Sample ID MrM-MW-12

Report Date: 11/21/10
Collection Date: 10/27/10 09:10
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.1	s.u.		0.1		A4500-H B	10/29/10 18:01 / zeg
Conductivity	683	umhos/cm		1		A2510 B	11/01/10 13:33 / zeg
INORGANICS							
Chloride	5	mg/L		1		E300.0	11/02/10 02:18 / zeg
Sulfate	35	mg/L		1		E300.0	11/02/10 02:18 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/28/10 14:22 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	11/09/10 00:15 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/09/10 00:15 / dck
Barium	ND	mg/L		0.1		E200.8	11/10/10 22:09 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/09/10 00:15 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/10/10 22:09 / dck
Chromium	ND	mg/L		0.01		E200.8	11/09/10 00:15 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/09/10 00:15 / dck
Copper	ND	mg/L		0.01		E200.8	11/09/10 00:15 / dck
Iron	0.31	mg/L		0.03		E200.8	11/09/10 00:15 / dck
Lead	ND	mg/L		0.01		E200.8	11/10/10 22:09 / dck
Nickel	ND	mg/L		0.01		E200.8	11/09/10 00:15 / dck
Selenium	ND	mg/L		0.005		E200.8	11/09/10 00:15 / dck
Silver	ND	mg/L		0.005		E200.8	11/11/10 12:53 / dck
Thallium	ND	mg/L		0.005		E200.8	11/10/10 22:09 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/09/10 00:15 / dck
Zinc	ND	mg/L		0.01		E200.8	11/09/10 00:15 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 19:53 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 19:53 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-004
Client Sample ID MrM-MW-12

Report Date: 11/21/10
Collection Date: 10/27/10 09:10
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
cis-1,2-Dichloroethene	0.57	ug/L	J	1.0		SW8260B	11/02/10 19:53 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 19:53 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 19:53 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 19:53 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/02/10 19:53 / abb
Surr: 1,2-Dichloroethane-d4	104	%REC		70-130		SW8260B	11/02/10 19:53 / abb
Surr: Dibromofluoromethane	99.0	%REC		70-130		SW8260B	11/02/10 19:53 / abb
Surr: p-Bromofluorobenzene	104	%REC		70-130		SW8260B	11/02/10 19:53 / abb
Surr: Toluene-d8	103	%REC		70-130		SW8260B	11/02/10 19:53 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-005
Client Sample ID: MrM-MW-12-DUP

Report Date: 11/21/10
Collection Date: 10/27/10 09:15
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.1	s.u.		0.1		A4500-H B	10/29/10 18:04 / zeg
Conductivity	698	umhos/cm		1		A2510 B	11/01/10 13:35 / zeg
INORGANICS							
Chloride	4	mg/L		1		E300.0	11/03/10 10:48 / zeg
Sulfate	33	mg/L		1		E300.0	11/03/10 10:48 / zeg
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/28/10 14:24 / reh
METALS, DISSOLVED							
Antimony	ND	mg/L		0.005		E200.8	11/09/10 00:33 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/09/10 00:33 / dck
Barium	ND	mg/L		0.1		E200.8	11/10/10 22:12 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/09/10 00:33 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/10/10 22:12 / dck
Chromium	ND	mg/L		0.01		E200.8	11/09/10 00:33 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/09/10 00:33 / dck
Copper	ND	mg/L		0.01		E200.8	11/09/10 00:33 / dck
Iron	0.30	mg/L		0.03		E200.8	11/09/10 00:33 / dck
Lead	ND	mg/L		0.01		E200.8	11/10/10 22:12 / dck
Nickel	ND	mg/L		0.01		E200.8	11/09/10 00:33 / dck
Selenium	ND	mg/L		0.005		E200.8	11/09/10 00:33 / dck
Silver	ND	mg/L		0.005		E200.8	11/11/10 13:15 / dck
Thallium	ND	mg/L		0.005		E200.8	11/10/10 22:12 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/09/10 00:33 / dck
Zinc	ND	mg/L		0.01		E200.8	11/09/10 00:33 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 20:23 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 20:23 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Client: **Smith & Jones Ltd** Project: **Q1 2024** Date: **2024-03-15**
 Location: **London, UK** Analyst: **J. Doe** Reviewer: **M. Smith**
 Report ID: **SRP-2024-001** Version: **1.0**

LABORATORY ANALYTICAL REPORT

Physical Properties		Chemical Analysis		Biological Assays	
Sample ID	101	Sample ID	102	Sample ID	103
Batch No.	101-001	Batch No.	102-001	Batch No.	103-001
Weight (g)	10.5	Weight (g)	10.5	Weight (g)	10.5
Volume (mL)	10.5	Volume (mL)	10.5	Volume (mL)	10.5
Color	White	Color	White	Color	White
Odor	None	Odor	None	Odor	None
Texture	Crystalline	Texture	Crystalline	Texture	Crystalline
Melting Point (°C)	101	Melting Point (°C)	102	Melting Point (°C)	103
Boiling Point (°C)	101	Boiling Point (°C)	102	Boiling Point (°C)	103
Density (g/mL)	1.01	Density (g/mL)	1.02	Density (g/mL)	1.03
Refractive Index	1.01	Refractive Index	1.02	Refractive Index	1.03
Viscosity (cP)	1.01	Viscosity (cP)	1.02	Viscosity (cP)	1.03
Surface Tension (mN/m)	1.01	Surface Tension (mN/m)	1.02	Surface Tension (mN/m)	1.03
Heat Capacity (J/g°C)	1.01	Heat Capacity (J/g°C)	1.02	Heat Capacity (J/g°C)	1.03
Thermal Conductivity (W/mK)	1.01	Thermal Conductivity (W/mK)	1.02	Thermal Conductivity (W/mK)	1.03
Electrical Conductivity (S/m)	1.01	Electrical Conductivity (S/m)	1.02	Electrical Conductivity (S/m)	1.03
Magnetic Susceptibility (cm³/mol)	1.01	Magnetic Susceptibility (cm³/mol)	1.02	Magnetic Susceptibility (cm³/mol)	1.03
Optical Density (OD)	1.01	Optical Density (OD)	1.02	Optical Density (OD)	1.03
Fluorescence Intensity	1.01	Fluorescence Intensity	1.02	Fluorescence Intensity	1.03
UV Absorbance	1.01	UV Absorbance	1.02	UV Absorbance	1.03
IR Absorbance	1.01	IR Absorbance	1.02	IR Absorbance	1.03
NMR Chemical Shift (ppm)	1.01	NMR Chemical Shift (ppm)	1.02	NMR Chemical Shift (ppm)	1.03
Mass Spectrometry (m/z)	1.01	Mass Spectrometry (m/z)	1.02	Mass Spectrometry (m/z)	1.03
GC-MS Retention Time (min)	1.01	GC-MS Retention Time (min)	1.02	GC-MS Retention Time (min)	1.03
HPLC Retention Time (min)	1.01	HPLC Retention Time (min)	1.02	HPLC Retention Time (min)	1.03
LC-MS Retention Time (min)	1.01	LC-MS Retention Time (min)	1.02	LC-MS Retention Time (min)	1.03
IC-MS Retention Time (min)	1.01	IC-MS Retention Time (min)	1.02	IC-MS Retention Time (min)	1.03
EC-MS Retention Time (min)	1.01	EC-MS Retention Time (min)	1.02	EC-MS Retention Time (min)	1.03
GC-MS Peak Area (%)	1.01	GC-MS Peak Area (%)	1.02	GC-MS Peak Area (%)	1.03
HPLC Peak Area (%)	1.01	HPLC Peak Area (%)	1.02	HPLC Peak Area (%)	1.03
LC-MS Peak Area (%)	1.01	LC-MS Peak Area (%)	1.02	LC-MS Peak Area (%)	1.03
IC-MS Peak Area (%)	1.01	IC-MS Peak Area (%)	1.02	IC-MS Peak Area (%)	1.03
EC-MS Peak Area (%)	1.01	EC-MS Peak Area (%)	1.02	EC-MS Peak Area (%)	1.03
GC-MS Peak Height (mm)	1.01	GC-MS Peak Height (mm)	1.02	GC-MS Peak Height (mm)	1.03
HPLC Peak Height (mm)	1.01	HPLC Peak Height (mm)	1.02	HPLC Peak Height (mm)	1.03
LC-MS Peak Height (mm)	1.01	LC-MS Peak Height (mm)	1.02	LC-MS Peak Height (mm)	1.03
IC-MS Peak Height (mm)	1.01	IC-MS Peak Height (mm)	1.02	IC-MS Peak Height (mm)	1.03
EC-MS Peak Height (mm)	1.01	EC-MS Peak Height (mm)	1.02	EC-MS Peak Height (mm)	1.03
GC-MS Peak Width (mm)	1.01	GC-MS Peak Width (mm)	1.02	GC-MS Peak Width (mm)	1.03
HPLC Peak Width (mm)	1.01	HPLC Peak Width (mm)	1.02	HPLC Peak Width (mm)	1.03
LC-MS Peak Width (mm)	1.01	LC-MS Peak Width (mm)	1.02	LC-MS Peak Width (mm)	1.03
IC-MS Peak Width (mm)	1.01	IC-MS Peak Width (mm)	1.02	IC-MS Peak Width (mm)	1.03
EC-MS Peak Width (mm)	1.01	EC-MS Peak Width (mm)	1.02	EC-MS Peak Width (mm)	1.03
GC-MS Peak Resolution	1.01	GC-MS Peak Resolution	1.02	GC-MS Peak Resolution	1.03
HPLC Peak Resolution	1.01	HPLC Peak Resolution	1.02	HPLC Peak Resolution	1.03
LC-MS Peak Resolution	1.01	LC-MS Peak Resolution	1.02	LC-MS Peak Resolution	1.03
IC-MS Peak Resolution	1.01	IC-MS Peak Resolution	1.02	IC-MS Peak Resolution	1.03
EC-MS Peak Resolution	1.01	EC-MS Peak Resolution	1.02	EC-MS Peak Resolution	1.03
GC-MS Peak Symmetry	1.01	GC-MS Peak Symmetry	1.02	GC-MS Peak Symmetry	1.03
HPLC Peak Symmetry	1.01	HPLC Peak Symmetry	1.02	HPLC Peak Symmetry	1.03
LC-MS Peak Symmetry	1.01	LC-MS Peak Symmetry	1.02	LC-MS Peak Symmetry	1.03
IC-MS Peak Symmetry	1.01	IC-MS Peak Symmetry	1.02	IC-MS Peak Symmetry	1.03
EC-MS Peak Symmetry	1.01	EC-MS Peak Symmetry	1.02	EC-MS Peak Symmetry	1.03
GC-MS Peak Tailoring	1.01	GC-MS Peak Tailoring	1.02	GC-MS Peak Tailoring	1.03
HPLC Peak Tailoring	1.01	HPLC Peak Tailoring	1.02	HPLC Peak Tailoring	1.03
LC-MS Peak Tailoring	1.01	LC-MS Peak Tailoring	1.02	LC-MS Peak Tailoring	1.03
IC-MS Peak Tailoring	1.01	IC-MS Peak Tailoring	1.02	IC-MS Peak Tailoring	1.03
EC-MS Peak Tailoring	1.01	EC-MS Peak Tailoring	1.02	EC-MS Peak Tailoring	1.03
GC-MS Peak Purity (%)	1.01	GC-MS Peak Purity (%)	1.02	GC-MS Peak Purity (%)	1.03
HPLC Peak Purity (%)	1.01	HPLC Peak Purity (%)	1.02	HPLC Peak Purity (%)	1.03
LC-MS Peak Purity (%)	1.01	LC-MS Peak Purity (%)	1.02	LC-MS Peak Purity (%)	1.03
IC-MS Peak Purity (%)	1.01	IC-MS Peak Purity (%)	1.02	IC-MS Peak Purity (%)	1.03
EC-MS Peak Purity (%)	1.01	EC-MS Peak Purity (%)	1.02	EC-MS Peak Purity (%)	1.03
GC-MS Peak Stability	1.01	GC-MS Peak Stability	1.02	GC-MS Peak Stability	1.03
HPLC Peak Stability	1.01	HPLC Peak Stability	1.02	HPLC Peak Stability	1.03
LC-MS Peak Stability	1.01	LC-MS Peak Stability	1.02	LC-MS Peak Stability	1.03
IC-MS Peak Stability	1.01	IC-MS Peak Stability	1.02	IC-MS Peak Stability	1.03
EC-MS Peak Stability	1.01	EC-MS Peak Stability	1.02	EC-MS Peak Stability	1.03
GC-MS Peak Reproducibility	1.01	GC-MS Peak Reproducibility	1.02	GC-MS Peak Reproducibility	1.03
HPLC Peak Reproducibility	1.01	HPLC Peak Reproducibility	1.02	HPLC Peak Reproducibility	1.03
LC-MS Peak Reproducibility	1.01	LC-MS Peak Reproducibility	1.02	LC-MS Peak Reproducibility	1.03
IC-MS Peak Reproducibility	1.01	IC-MS Peak Reproducibility	1.02	IC-MS Peak Reproducibility	1.03
EC-MS Peak Reproducibility	1.01	EC-MS Peak Reproducibility	1.02	EC-MS Peak Reproducibility	1.03
GC-MS Peak Accuracy	1.01	GC-MS Peak Accuracy	1.02	GC-MS Peak Accuracy	1.03
HPLC Peak Accuracy	1.01	HPLC Peak Accuracy	1.02	HPLC Peak Accuracy	1.03
LC-MS Peak Accuracy	1.01	LC-MS Peak Accuracy	1.02	LC-MS Peak Accuracy	1.03
IC-MS Peak Accuracy	1.01	IC-MS Peak Accuracy	1.02	IC-MS Peak Accuracy	1.03
EC-MS Peak Accuracy	1.01	EC-MS Peak Accuracy	1.02	EC-MS Peak Accuracy	1.03
GC-MS Peak Precision	1.01	GC-MS Peak Precision	1.02	GC-MS Peak Precision	1.03
HPLC Peak Precision	1.01	HPLC Peak Precision	1.02	HPLC Peak Precision	1.03
LC-MS Peak Precision	1.01	LC-MS Peak Precision	1.02	LC-MS Peak Precision	1.03
IC-MS Peak Precision	1.01	IC-MS Peak Precision	1.02	IC-MS Peak Precision	1.03
EC-MS Peak Precision	1.01	EC-MS Peak Precision	1.02	EC-MS Peak Precision	1.03
GC-MS Peak Sensitivity	1.01	GC-MS Peak Sensitivity	1.02	GC-MS Peak Sensitivity	1.03
HPLC Peak Sensitivity	1.01	HPLC Peak Sensitivity	1.02	HPLC Peak Sensitivity	1.03
LC-MS Peak Sensitivity	1.01	LC-MS Peak Sensitivity	1.02	LC-MS Peak Sensitivity	1.03
IC-MS Peak Sensitivity	1.01	IC-MS Peak Sensitivity	1.02	IC-MS Peak Sensitivity	1.03
EC-MS Peak Sensitivity	1.01	EC-MS Peak Sensitivity	1.02	EC-MS Peak Sensitivity	1.03
GC-MS Peak Selectivity	1.01	GC-MS Peak Selectivity	1.02	GC-MS Peak Selectivity	1.03
HPLC Peak Selectivity	1.01	HPLC Peak Selectivity	1.02	HPLC Peak Selectivity	1.03
LC-MS Peak Selectivity	1.01	LC-MS Peak Selectivity	1.02	LC-MS Peak Selectivity	1.03
IC-MS Peak Selectivity	1.01	IC-MS Peak Selectivity	1.02	IC-MS Peak Selectivity	1.03
EC-MS Peak Selectivity	1.01	EC-MS Peak Selectivity	1.02	EC-MS Peak Selectivity	1.03
GC-MS Peak Robustness	1.01	GC-MS Peak Robustness	1.02	GC-MS Peak Robustness	1.03
HPLC Peak Robustness	1.01	HPLC Peak Robustness	1.02	HPLC Peak Robustness	1.03
LC-MS Peak Robustness	1.01	LC-MS Peak Robustness	1.02	LC-MS Peak Robustness	1.03
IC-MS Peak Robustness	1.01	IC-MS Peak Robustness	1.02	IC-MS Peak Robustness	1.03
EC-MS Peak Robustness	1.01	EC-MS Peak Robustness	1.02	EC-MS Peak Robustness	1.03
GC-MS Peak Reliability	1.01	GC-MS Peak Reliability	1.02	GC-MS Peak Reliability	1.03
HPLC Peak Reliability	1.01	HPLC Peak Reliability	1.02	HPLC Peak Reliability	1.03
LC-MS Peak Reliability	1.01	LC-MS Peak Reliability	1.02	LC-MS Peak Reliability	1.03
IC-MS Peak Reliability	1.01	IC-MS Peak Reliability	1.02	IC-MS Peak Reliability	1.03
EC-MS Peak Reliability	1.01	EC-MS Peak Reliability	1.02	EC-MS Peak Reliability	1.03
GC-MS Peak Compatibility	1.01	GC-MS Peak Compatibility	1.02	GC-MS Peak Compatibility	1.03
HPLC Peak Compatibility	1.01	HPLC Peak Compatibility	1.02	HPLC Peak Compatibility	1.03
LC-MS Peak Compatibility	1.01	LC-MS Peak Compatibility	1.02	LC-MS Peak Compatibility	1.03
IC-MS Peak Compatibility	1.01	IC-MS Peak Compatibility	1.02	IC-MS Peak Compatibility	1.03
EC-MS Peak Compatibility	1.01	EC-MS Peak Compatibility	1.02	EC-MS Peak Compatibility	1.03
GC-MS Peak Scalability	1.01	GC-MS Peak Scalability	1.02	GC-MS Peak Scalability	1.03
HPLC Peak Scalability	1.01	HPLC Peak Scalability	1.02	HPLC Peak Scalability	1.03
LC-MS Peak Scalability	1.01	LC-MS Peak Scalability	1.02	LC-MS Peak Scalability	1.03
IC-MS Peak Scalability	1.01	IC-MS Peak Scalability	1.02	IC-MS Peak Scalability	1.03
EC-MS Peak Scalability	1.01	EC-MS Peak Scalability	1.02	EC-MS Peak Scalability	1.03
GC-MS Peak Sustainability	1.01	GC-MS Peak Sustainability	1.02	GC-MS Peak Sustainability	1.03
HPLC Peak Sustainability	1.01	HPLC Peak Sustainability	1.02	HPLC Peak Sustainability	1.03
LC-MS Peak Sustainability	1.01	LC-MS Peak Sustainability	1.02	LC-MS Peak Sustainability	1.03
IC-MS Peak Sustainability	1.01	IC-MS Peak Sustainability	1.02	IC-MS Peak Sustainability	1.03
EC-MS Peak Sustainability	1.01	EC-MS Peak Sustainability	1.02	EC-MS Peak Sustainability	1.03
GC-MS Peak Efficiency	1.01	GC-MS Peak Efficiency	1.02	GC-MS Peak Efficiency	1.03
HPLC Peak Efficiency	1.01	HPLC Peak Efficiency	1.02	HPLC Peak Efficiency	1.03
LC-MS Peak Efficiency	1.01	LC-MS Peak Efficiency	1.02	LC-MS Peak Efficiency	1.03
IC-MS Peak Efficiency	1.01	IC-MS Peak Efficiency	1.02	IC-MS Peak Efficiency	1.03
EC-MS Peak Efficiency	1.01	EC-MS Peak Efficiency	1.02	EC-MS Peak Efficiency	1.03
GC-MS Peak Effectiveness	1.01	GC-MS Peak Effectiveness	1.02	GC-MS Peak Effectiveness	1.03
HPLC Peak Effectiveness	1.01	HPLC Peak Effectiveness	1.02	HPLC Peak Effectiveness	1.03
LC-MS Peak Effectiveness	1.01	LC-MS Peak Effectiveness	1.02	LC-MS Peak Effectiveness	1.03
IC-MS Peak Effectiveness	1.01	IC-MS Peak Effectiveness	1.02	IC-MS Peak Effectiveness	1.03
EC-MS Peak Effectiveness	1.01	EC-MS Peak Effectiveness	1.02	EC-MS Peak Effectiveness	1.03
GC-MS Peak Performance	1.01	GC-MS Peak Performance	1.02	GC-MS Peak Performance	1.03
HPLC Peak Performance	1.01	HPLC Peak Performance	1.02	HPLC Peak Performance	1.03
LC-MS Peak Performance	1.01	LC-MS Peak Performance	1.02	LC-MS Peak Performance	1.03
IC-MS Peak Performance	1.01	IC-MS Peak Performance	1.02	IC-MS Peak Performance	1.03
EC-MS Peak Performance	1.01	EC-MS Peak Performance	1.02	EC-MS Peak Performance	1.03
GC-MS Peak Quality	1.01	GC-MS Peak Quality	1.02	GC-MS Peak Quality	1.03
HPLC Peak Quality	1.01	HPLC Peak Quality	1.02	HPLC Peak Quality	1.03
LC-MS Peak Quality	1.01	LC-MS Peak Quality	1.02	LC-MS Peak Quality	1.03
IC-MS Peak Quality	1.01	IC-MS Peak Quality	1.02	IC-MS Peak Quality	1.03
EC-MS Peak Quality	1.01	EC-MS Peak Quality	1.02	EC-MS Peak Quality	1.03
GC-MS Peak Value	1.01	GC-MS Peak Value	1.02	GC-MS Peak Value	1.03
HPLC Peak Value	1.01	HPLC Peak Value	1.02	HPLC Peak Value	1.03
LC-MS Peak Value	1.01	LC-MS Peak Value	1.02	LC-MS Peak Value	1.03
IC-MS Peak Value	1.01	IC-MS Peak Value	1.02	IC-MS Peak Value	1.03
EC-MS Peak Value	1.01	EC-MS Peak Value	1.02	EC-MS Peak Value	1.03
GC-MS Peak Benefit	1.01	GC-MS Peak Benefit	1.02	GC-MS Peak Benefit	1.03
HPLC Peak Benefit	1.01	HPLC Peak Benefit	1.02	HPLC Peak Benefit	1.03
LC-MS Peak Benefit	1.01	LC-MS Peak Benefit	1.02	LC-MS Peak Benefit	1.03
IC-MS Peak Benefit	1.01	IC-MS Peak Benefit	1.02	IC-MS Peak Benefit	1.03
EC-MS Peak Benefit	1.01	EC-MS Peak Benefit	1.02	EC-MS Peak Benefit	1.03
GC-MS Peak Impact	1.01	GC-MS Peak Impact	1.02	GC-MS Peak Impact	1.03
HPLC Peak Impact	1.01	HPLC Peak Impact	1.02	HPLC Peak Impact	1.03
LC-MS Peak Impact	1.01	LC-MS Peak Impact	1.02	LC-MS Peak Impact	1.03
IC-MS Peak Impact	1.01	IC-MS Peak Impact	1.02	IC-MS Peak Impact	1.03
EC-MS Peak Impact	1.01	EC-MS Peak Impact	1.02	EC-MS Peak Impact	1.03
GC-MS Peak Outcome	1.01	GC-MS Peak Outcome	1.02	GC-MS Peak Outcome	1.03
HPLC Peak Outcome	1.01	HPLC Peak Outcome	1.02	HPLC Peak Outcome	1.03
LC-MS Peak Outcome	1.01	LC-MS Peak Outcome	1.02	LC-MS Peak Outcome	1.03
IC-MS Peak Outcome	1.01	IC-MS Peak Outcome	1.02	IC-MS Peak Outcome	1.03
EC-MS Peak Outcome	1.01	EC-MS Peak Outcome	1.02	EC-MS Peak Outcome	1.03
GC-MS Peak Result	1.01	GC-MS Peak Result	1.02	GC-MS Peak Result	1.03
HPLC Peak Result	1.01	HPLC Peak Result	1.02	HPLC Peak Result	1.03
LC-MS Peak Result	1.01	LC-MS Peak Result	1.02	LC-MS Peak Result	1.03
IC-MS Peak Result	1.01	IC-MS Peak Result	1.02	IC-MS Peak Result	1.03
EC-MS Peak Result	1.01	EC-MS Peak Result	1.02	EC-MS Peak Result	1.03
GC-MS Peak Conclusion	1.01	GC-MS Peak Conclusion	1.02	GC-MS Peak Conclusion	1.03
HPLC Peak Conclusion	1.01	HPLC Peak Conclusion	1.02	HPLC Peak Conclusion	1.03
LC-MS Peak Conclusion	1.01	LC-MS Peak Conclusion	1.02	LC-MS Peak Conclusion	1.03
IC-MS Peak Conclusion	1.01	IC-MS Peak Conclusion	1.02	IC-MS Peak Conclusion	1.03
EC-MS Peak Conclusion	1.01	EC-MS Peak Conclusion	1.02	EC-MS Peak Conclusion	1.03
GC-MS Peak Summary	1.01	GC-MS Peak Summary	1.02	GC-MS Peak Summary	1.03
HPLC Peak Summary	1.01	HPLC Peak Summary	1.02	HPLC Peak Summary	1.03
LC-MS Peak Summary	1.01	LC-MS Peak Summary	1.02	LC-MS Peak Summary	1.03
IC-MS Peak Summary	1.01	IC-MS Peak Summary	1.02	IC-MS Peak Summary	1.03
EC-MS Peak Summary	1.01	EC-MS Peak Summary	1.02	EC-MS Peak Summary	1.03
GC-MS Peak Final	1.01	GC-MS Peak Final	1.02	GC-MS Peak Final	1.03
HPLC Peak Final	1.01	HPLC Peak Final	1.02	HPLC Peak Final	1.03
LC-MS Peak Final	1.01	LC-MS Peak Final	1.02	LC-MS Peak Final	1.03
IC-MS Peak Final	1.01	IC-MS Peak Final	1.02	IC-MS Peak Final	1.03
EC-MS Peak Final	1.01	EC-MS Peak Final	1.02	EC-MS Peak Final	1.03

Report ID: **SRP-2024-001** Version: **1.0** Date: **2024-03-15**
 Location: **London, UK** Analyst: **J. Doe** Reviewer: **M. Smith**
 Project: **Q1 2024** Client: **Smith & Jones Ltd**

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-005
Client Sample ID: MrM-MW-12-DUP

Report Date: 11/21/10
Collection Date: 10/27/10 09:15
Date Received: 10/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
cis-1,2-Dichloroethene	0.62	ug/L	J	1.0		SW8260B	11/02/10 20:23 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 20:23 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 20:23 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 20:23 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/02/10 20:23 / abb
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	11/02/10 20:23 / abb
Surr: Dibromofluoromethane	98.0	%REC		70-130		SW8260B	11/02/10 20:23 / abb
Surr: p-Bromofluorobenzene	105	%REC		70-130		SW8260B	11/02/10 20:23 / abb
Surr: Toluene-d8	102	%REC		70-130		SW8260B	11/02/10 20:23 / abb

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
J - Estimated value. The analyte was present but less than the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-006
Client Sample ID TB 101210RTHCL1617 062110-3

Report Date: 11/21/10
Collection Date: 10/25/10 17:05
Date Received: 10/27/10
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/02/10 17:53 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/02/10 17:53 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/02/10 17:53 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/02/10 17:53 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/02/10 17:53 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H10100425-006
Client Sample ID TB 101210RTHCL1617 062110-3

Report Date: 11/21/10
Collection Date: 10/25/10 17:05
Date Received: 10/27/10
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/02/10 17:53 / abb
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	11/02/10 17:53 / abb
Surr: Dibromofluoromethane	100	%REC		70-130		SW8260B	11/02/10 17:53 / abb
Surr: p-Bromofluorobenzene	103	%REC		70-130		SW8260B	11/02/10 17:53 / abb
Surr: Toluene-d8	108	%REC		70-130		SW8260B	11/02/10 17:53 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										
Analytical Run: COND_101101A										
Sample ID: ICV2_101101A	Initial Calibration Verification Standard									
Conductivity		986	umhos/cm	1.0	99	90	110			11/01/10 11:44
Sample ID: CCV3_101101A										
Continuing Calibration Verification Standard										
Conductivity		1410	umhos/cm	1.0	100	90	110			11/01/10 13:16
Method: A2510 B										
Batch: 101101A-COND-PROBE-W										
Sample ID: LCS1_101101A	Laboratory Control Sample									
Conductivity		1410	umhos/cm	1.0	100	90	110			Run: COND_101101A 11/01/10 11:45
Sample ID: H10100425-004ADUP										
Sample Duplicate										
Conductivity		678	umhos/cm	1.0				0.7	10	Run: COND_101101A 11/01/10 13:34

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B Analytical Run: MAN-TECH_101029B										
Sample ID: CCV1-1631	Continuing Calibration Verification Standard									
pH		3.94	s.u.	0.10	99	98	102			10/29/10 17:09
Sample ID: CCV-1552	Continuing Calibration Verification Standard									
pH		7.02	s.u.	0.10	100	98	102			10/29/10 17:12
Sample ID: CCV2-1664	Continuing Calibration Verification Standard									
pH		10.0	s.u.	0.10	100	98	102			10/29/10 17:15
Sample ID: ICV-1632	Initial Calibration Verification Standard									
pH		7.00	s.u.	0.10	100	99	101			10/29/10 17:18
Method: A4500-H B Batch: R66671										
Sample ID: H10100425-002ADUP	Sample Duplicate Run: MAN-TECH_101029B									
pH		8.13	s.u.	0.10				0.1	3	10/29/10 17:53

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Analytical Run: ICPMS204-B_101108A										
Sample ID: ICV STD	15 Initial Calibration Verification Standard									
										11/08/10 11:06
Antimony		0.0470	mg/L	0.050	94	90	110			
Arsenic		0.0488	mg/L	0.0050	98	90	110			
Barium		0.0479	mg/L	0.10	96	90	110			
Beryllium		0.0245	mg/L	0.0010	98	90	110			
Cadmium		0.0256	mg/L	0.0010	103	90	110			
Chromium		0.0491	mg/L	0.010	98	90	110			
Cobalt		0.0497	mg/L	0.010	99	90	110			
Copper		0.0503	mg/L	0.010	101	90	110			
Iron		0.258	mg/L	0.030	101	90	110			
Lead		0.0460	mg/L	0.010	92	90	110			
Nickel		0.0497	mg/L	0.010	99	90	110			
Selenium		0.0500	mg/L	0.0050	100	90	110			
Thallium		0.0480	mg/L	0.10	96	90	110			
Vanadium		0.0482	mg/L	0.10	96	90	110			
Zinc		0.0506	mg/L	0.010	101	90	110			
Sample ID: ICSA	15 Interference Check Sample A									
										11/08/10 11:10
Antimony		0.000650	mg/L	0.050						
Arsenic		0.000135	mg/L	0.0050						
Barium		0.000132	mg/L	0.10						
Beryllium		8.00E-06	mg/L	0.0010						
Cadmium		0.000535	mg/L	0.0010						
Chromium		0.000521	mg/L	0.010						
Cobalt		0.00166	mg/L	0.010						
Copper		0.00148	mg/L	0.010						
Iron		104	mg/L	0.030	104	70	130			
Lead		8.80E-05	mg/L	0.010						
Nickel		0.00113	mg/L	0.010						
Selenium		0.000125	mg/L	0.0050						
Thallium		1.30E-05	mg/L	0.10						
Vanadium		6.30E-05	mg/L	0.10						
Zinc		0.00125	mg/L	0.010						
Sample ID: ICSAB	15 Interference Check Sample AB									
										11/08/10 11:15
Antimony		0.000273	mg/L	0.050		0	0			
Arsenic		0.0106	mg/L	0.0050	106	70	130			
Barium		0.000133	mg/L	0.10		0	0			
Beryllium		5.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0107	mg/L	0.0010	107	70	130			
Chromium		0.0211	mg/L	0.010	106	70	130			
Cobalt		0.0228	mg/L	0.010	114	70	130			
Copper		0.0219	mg/L	0.010	109	70	130			
Iron		103	mg/L	0.030	103	70	130			
Lead		7.50E-05	mg/L	0.010		0	0			
Nickel		0.0216	mg/L	0.010	108	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Analytical Run: ICPMS204-B_101108A										
Sample ID: ICSAB	15	Interference Check Sample AB								
										11/08/10 11:15
Selenium		0.0102	mg/L	0.0050	102	70	130			
Thallium		2.00E-06	mg/L	0.10		0	0			
Vanadium		0.0208	mg/L	0.10	104	70	130			
Zinc		0.0112	mg/L	0.010	112	70	130			
Sample ID: ICV STD	15	Initial Calibration Verification Standard								
										11/08/10 12:22
Antimony		0.0465	mg/L	0.050	93	90	110			
Arsenic		0.0489	mg/L	0.0050	98	90	110			
Barium		0.0482	mg/L	0.10	96	90	110			
Beryllium		0.0251	mg/L	0.0010	100	90	110			
Cadmium		0.0255	mg/L	0.0010	102	90	110			
Chromium		0.0494	mg/L	0.010	99	90	110			
Cobalt		0.0492	mg/L	0.010	98	90	110			
Copper		0.0506	mg/L	0.010	101	90	110			
Iron		0.256	mg/L	0.030	100	90	110			
Lead		0.0468	mg/L	0.010	94	90	110			
Nickel		0.0499	mg/L	0.010	100	90	110			
Selenium		0.0495	mg/L	0.0050	99	90	110			
Thallium		0.0493	mg/L	0.10	99	90	110			
Vanadium		0.0484	mg/L	0.10	97	90	110			
Zinc		0.0503	mg/L	0.010	101	90	110			
Sample ID: ICV STD	15	Initial Calibration Verification Standard								
										11/08/10 16:32
Antimony		0.0477	mg/L	0.050	95	90	110			
Arsenic		0.0491	mg/L	0.0050	98	90	110			
Barium		0.0487	mg/L	0.10	97	90	110			
Beryllium		0.0248	mg/L	0.0010	99	90	110			
Cadmium		0.0259	mg/L	0.0010	103	90	110			
Chromium		0.0497	mg/L	0.010	99	90	110			
Cobalt		0.0494	mg/L	0.010	99	90	110			
Copper		0.0507	mg/L	0.010	101	90	110			
Iron		0.266	mg/L	0.030	104	90	110			
Lead		0.0474	mg/L	0.010	95	90	110			
Nickel		0.0500	mg/L	0.010	100	90	110			
Selenium		0.0506	mg/L	0.0050	101	90	110			
Thallium		0.0493	mg/L	0.10	99	90	110			
Vanadium		0.0488	mg/L	0.10	98	90	110			
Zinc		0.0510	mg/L	0.010	102	90	110			
Sample ID: ICSA	15	Interference Check Sample A								
										11/08/10 16:36
Antimony		0.000504	mg/L	0.050						
Arsenic		0.000161	mg/L	0.0050						
Barium		0.000140	mg/L	0.10						
Beryllium		6.00E-06	mg/L	0.0010						
Cadmium		0.000374	mg/L	0.0010						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Analytical Run: ICPMS204-B_101108A										
Sample ID: ICSA	15 Interference Check Sample A									
										11/08/10 16:36
Chromium		0.000553	mg/L	0.010						
Cobalt		0.00166	mg/L	0.010						
Copper		0.00142	mg/L	0.010						
Iron		104	mg/L	0.030	104	70	130			
Lead		8.30E-05	mg/L	0.010						
Nickel		0.00113	mg/L	0.010						
Selenium		9.00E-05	mg/L	0.0050						
Thallium		1.80E-05	mg/L	0.10						
Vanadium		8.10E-05	mg/L	0.10						
Zinc		0.00112	mg/L	0.010						
Sample ID: ICSAB	15 Interference Check Sample AB									
										11/08/10 16:41
Antimony		0.000246	mg/L	0.050		0	0			
Arsenic		0.0107	mg/L	0.0050	107	70	130			
Barium		0.000140	mg/L	0.10		0	0			
Beryllium		5.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0107	mg/L	0.0010	107	70	130			
Chromium		0.0209	mg/L	0.010	104	70	130			
Cobalt		0.0224	mg/L	0.010	112	70	130			
Copper		0.0215	mg/L	0.010	108	70	130			
Iron		103	mg/L	0.030	103	70	130			
Lead		7.10E-05	mg/L	0.010		0	0			
Nickel		0.0214	mg/L	0.010	107	70	130			
Selenium		0.0105	mg/L	0.0050	105	70	130			
Thallium		ND	mg/L	0.10		0	0			
Vanadium		0.0206	mg/L	0.10	103	70	130			
Zinc		0.0110	mg/L	0.010	110	70	130			
Sample ID: ICV STD	15 Initial Calibration Verification Standard									
										11/09/10 02:19
Antimony		0.0472	mg/L	0.050	94	90	110			
Arsenic		0.0487	mg/L	0.0050	97	90	110			
Barium		0.0476	mg/L	0.10	95	90	110			
Beryllium		0.0243	mg/L	0.0010	97	90	110			
Cadmium		0.0253	mg/L	0.0010	101	90	110			
Chromium		0.0495	mg/L	0.010	99	90	110			
Cobalt		0.0488	mg/L	0.010	98	90	110			
Copper		0.0508	mg/L	0.010	102	90	110			
Iron		0.270	mg/L	0.030	106	90	110			
Lead		0.0466	mg/L	0.010	93	90	110			
Nickel		0.0503	mg/L	0.010	101	90	110			
Selenium		0.0511	mg/L	0.0050	102	90	110			
Thallium		0.0486	mg/L	0.10	97	90	110			
Vanadium		0.0485	mg/L	0.10	97	90	110			
Zinc		0.0504	mg/L	0.010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_101108A								
Sample ID: ICSA		15 Interference Check Sample A								11/09/10 02:23
Antimony		0.000360	mg/L	0.050						
Arsenic		0.000193	mg/L	0.0050						
Barium		0.000132	mg/L	0.10						
Beryllium		1.20E-05	mg/L	0.0010						
Cadmium		0.000495	mg/L	0.0010						
Chromium		0.000575	mg/L	0.010						
Cobalt		0.00158	mg/L	0.010						
Copper		0.00140	mg/L	0.010						
Iron		104	mg/L	0.030	104	70	130			
Lead		8.50E-05	mg/L	0.010						
Nickel		0.00114	mg/L	0.010						
Selenium		0.000219	mg/L	0.0050						
Thallium		2.30E-05	mg/L	0.10						
Vanadium		8.80E-05	mg/L	0.10						
Zinc		0.00124	mg/L	0.010						
Sample ID: ICSAB		15 Interference Check Sample AB								11/09/10 02:28
Antimony		0.000199	mg/L	0.050		0	0			
Arsenic		0.0108	mg/L	0.0050	108	70	130			
Barium		0.000113	mg/L	0.10		0	0			
Beryllium		5.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0106	mg/L	0.0010	106	70	130			
Chromium		0.0209	mg/L	0.010	105	70	130			
Cobalt		0.0222	mg/L	0.010	111	70	130			
Copper		0.0217	mg/L	0.010	109	70	130			
Iron		104	mg/L	0.030	104	70	130			
Lead		7.50E-05	mg/L	0.010		0	0			
Nickel		0.0217	mg/L	0.010	109	70	130			
Selenium		0.0104	mg/L	0.0050	104	70	130			
Thallium		1.50E-05	mg/L	0.10		0	0			
Vanadium		0.0206	mg/L	0.10	103	70	130			
Zinc		0.0109	mg/L	0.010	109	70	130			
Sample ID: ICV STD		15 Initial Calibration Verification Standard								11/09/10 13:53
Antimony		0.0473	mg/L	0.050	95	90	110			
Arsenic		0.0490	mg/L	0.0050	98	90	110			
Barium		0.0481	mg/L	0.10	96	90	110			
Beryllium		0.0245	mg/L	0.0010	98	90	110			
Cadmium		0.0254	mg/L	0.0010	102	90	110			
Chromium		0.0499	mg/L	0.010	100	90	110			
Cobalt		0.0494	mg/L	0.010	99	90	110			
Copper		0.0507	mg/L	0.010	101	90	110			
Iron		0.262	mg/L	0.030	103	90	110			
Lead		0.0462	mg/L	0.010	92	90	110			
Nickel		0.0504	mg/L	0.010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_101108A								
Sample ID: ICV STD	15	Initial Calibration Verification Standard								11/09/10 13:53
Selenium		0.0506	mg/L	0.0050	101	90	110			
Thallium		0.0476	mg/L	0.10	95	90	110			
Vanadium		0.0488	mg/L	0.10	98	90	110			
Zinc		0.0502	mg/L	0.010	100	90	110			
Sample ID: ICSA	15	Interference Check Sample A								11/09/10 13:57
Antimony		0.000359	mg/L	0.050						
Arsenic		0.000253	mg/L	0.0050						
Barium		0.000125	mg/L	0.10						
Beryllium		2.60E-05	mg/L	0.0010						
Cadmium		0.000393	mg/L	0.0010						
Chromium		0.000513	mg/L	0.010						
Cobalt		0.00162	mg/L	0.010						
Copper		0.00145	mg/L	0.010						
Iron		103	mg/L	0.030	103	70	130			
Lead		8.40E-05	mg/L	0.010						
Nickel		0.00113	mg/L	0.010						
Selenium		0.000127	mg/L	0.0050						
Thallium		2.50E-05	mg/L	0.10						
Vanadium		6.50E-05	mg/L	0.10						
Zinc		0.00116	mg/L	0.010						
Sample ID: ICSAB	15	Interference Check Sample AB								11/09/10 14:02
Antimony		0.000191	mg/L	0.050		0	0			
Arsenic		0.0106	mg/L	0.0050	106	70	130			
Barium		0.000134	mg/L	0.10		0	0			
Beryllium		1.40E-05	mg/L	0.0010		0	0			
Cadmium		0.0103	mg/L	0.0010	103	70	130			
Chromium		0.0208	mg/L	0.010	104	70	130			
Cobalt		0.0220	mg/L	0.010	110	70	130			
Copper		0.0214	mg/L	0.010	107	70	130			
Iron		101	mg/L	0.030	101	70	130			
Lead		7.00E-05	mg/L	0.010		0	0			
Nickel		0.0218	mg/L	0.010	109	70	130			
Selenium		0.00986	mg/L	0.0050	99	70	130			
Thallium		1.30E-05	mg/L	0.10		0	0			
Vanadium		0.0208	mg/L	0.10	104	70	130			
Zinc		0.0109	mg/L	0.010	109	70	130			
Method: E200.8		Batch: R66970								
Sample ID: ICB	15	Method Blank								11/08/10 13:12
						Run: ICPMS204-B_101108A				
Antimony		ND	mg/L	1E-05						
Arsenic		ND	mg/L	3E-05						
Barium		ND	mg/L	2E-05						
Beryllium		ND	mg/L	1E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R66970
Sample ID: ICB	15	Method Blank				Run: ICPMS204-B_101108A				11/08/10 13:12
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	8E-05						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	3E-05						
Iron		ND	mg/L	0.0002						
Lead		ND	mg/L	1E-05						
Nickel		ND	mg/L	7E-05						
Selenium		ND	mg/L	3E-05						
Thallium		ND	mg/L	2E-05						
Vanadium		ND	mg/L	2E-05						
Zinc		ND	mg/L	0.0006						
Sample ID: LFB	15	Laboratory Fortified Blank				Run: ICPMS204-B_101108A				11/08/10 13:17
Antimony		0.0495	mg/L	0.050	99	85	115			
Arsenic		0.0501	mg/L	0.0050	100	85	115			
Barium		0.0499	mg/L	0.10	100	85	115			
Beryllium		0.0501	mg/L	0.0010	100	85	115			
Cadmium		0.0494	mg/L	0.0010	99	85	115			
Chromium		0.0506	mg/L	0.010	101	85	115			
Cobalt		0.0493	mg/L	0.010	99	85	115			
Copper		0.0487	mg/L	0.010	97	85	115			
Iron		4.95	mg/L	0.030	99	85	115			
Lead		0.0504	mg/L	0.010	101	85	115			
Nickel		0.0493	mg/L	0.010	99	85	115			
Selenium		0.0494	mg/L	0.0050	99	85	115			
Thallium		0.0505	mg/L	0.10	101	85	115			
Vanadium		0.0507	mg/L	0.10	101	85	115			
Zinc		0.0502	mg/L	0.010	100	85	115			
Sample ID: H10100425-004BMS	15	Sample Matrix Spike				Run: ICPMS204-B_101108A				11/09/10 00:19
Antimony		0.0446	mg/L	0.0050	89	70	130			
Arsenic		0.0480	mg/L	0.0050	94	70	130			
Barium		0.0857	mg/L	0.10	88	70	130			
Beryllium		0.0452	mg/L	0.0010	90	70	130			
Cadmium		0.0435	mg/L	0.0010	87	70	130			
Chromium		0.0463	mg/L	0.010	93	70	130			
Cobalt		0.0465	mg/L	0.010	91	70	130			
Copper		0.0442	mg/L	0.010	88	70	130			
Iron		4.93	mg/L	0.030	92	70	130			
Lead		0.0444	mg/L	0.010	89	70	130			
Nickel		0.0464	mg/L	0.010	89	70	130			
Selenium		0.0466	mg/L	0.0050	93	70	130			
Thallium		0.0445	mg/L	0.0050	89	70	130			
Vanadium		0.0465	mg/L	0.10	93	70	130			
Zinc		0.0478	mg/L	0.010	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



2000 Summary Report

Report Date: 1/1/2001
Report Title: 2000 Summary Report

Page: 1 of 1
Report Title: 2000 Summary Report

Category	Subcategory	Value	Unit	Year	Value	Unit	Year
Total	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
Total	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
Total	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
Total	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
Total	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000
	2000	100	%	2000	100	%	2000

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R66970
Sample ID: H10100425-004BMS	15	Sample Matrix Spike		Run: ICPMS204-B_101108A				11/09/10 00:19		
Sample ID: H10100425-004BMSD	15	Sample Matrix Spike Duplicate		Run: ICPMS204-B_101108A				11/09/10 00:24		
Antimony		0.0445	mg/L	0.0050	89	70	130	0.1	20	
Arsenic		0.0481	mg/L	0.0050	94	70	130	0.3	20	
Barium		0.0840	mg/L	0.10	84	70	130		20	
Beryllium		0.0444	mg/L	0.0010	89	70	130	1.9	20	
Cadmium		0.0431	mg/L	0.0010	86	70	130	0.8	20	
Chromium		0.0463	mg/L	0.010	93	70	130	0.0	20	
Cobalt		0.0468	mg/L	0.010	91	70	130	0.7	20	
Copper		0.0443	mg/L	0.010	88	70	130	0.2	20	
Iron		4.92	mg/L	0.030	92	70	130	0.2	20	
Lead		0.0444	mg/L	0.010	89	70	130	0.0	20	
Nickel		0.0463	mg/L	0.010	89	70	130	0.3	20	
Selenium		0.0466	mg/L	0.0050	93	70	130	0.0	20	
Thallium		0.0442	mg/L	0.0050	88	70	130	0.7	20	
Vanadium		0.0464	mg/L	0.10	93	70	130		20	
Zinc		0.0486	mg/L	0.010	92	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS204-B_101110B		
Sample ID: ICV STD	5	Initial Calibration Verification Standard								11/10/10 19:36
Barium		0.0498	mg/L	0.10	100	90	110			
Cadmium		0.0263	mg/L	0.0010	105	90	110			
Lead		0.0473	mg/L	0.010	95	90	110			
Silver		0.0258	mg/L	0.0050	103	90	110			
Thallium		0.0500	mg/L	0.10	100	90	110			
Sample ID: ICSA	5	Interference Check Sample A								11/10/10 19:39
Barium		0.000122	mg/L	0.10						
Cadmium		0.000510	mg/L	0.0010						
Lead		0.000100	mg/L	0.010						
Silver		0.000319	mg/L	0.0050						
Thallium		7.50E-05	mg/L	0.10						
Sample ID: ICSAB	5	Interference Check Sample AB								11/10/10 19:42
Barium		0.000151	mg/L	0.10		0	0			
Cadmium		0.0102	mg/L	0.0010	102	70	130			
Lead		0.000128	mg/L	0.010		0	0			
Silver		0.0196	mg/L	0.0050	98	70	130			
Thallium		7.30E-05	mg/L	0.10		0	0			
Sample ID: ICV STD	5	Initial Calibration Verification Standard								11/11/10 00:58
Barium		0.0493	mg/L	0.10	99	90	110			
Cadmium		0.0262	mg/L	0.0010	105	90	110			
Lead		0.0476	mg/L	0.010	95	90	110			
Silver		0.0255	mg/L	0.0050	102	90	110			
Thallium		0.0502	mg/L	0.10	100	90	110			
Sample ID: ICSA	5	Interference Check Sample A								11/11/10 01:01
Barium		0.000168	mg/L	0.10						
Cadmium		0.000546	mg/L	0.0010						
Lead		0.000153	mg/L	0.010						
Silver		0.000360	mg/L	0.0050						
Thallium		0.000103	mg/L	0.10						
Sample ID: ICSAB	5	Interference Check Sample AB								11/11/10 01:04
Barium		0.000161	mg/L	0.10		0	0			
Cadmium		0.00996	mg/L	0.0010	100	70	130			
Lead		0.000121	mg/L	0.010		0	0			
Silver		0.0193	mg/L	0.0050	96	70	130			
Thallium		7.80E-05	mg/L	0.10		0	0			
Sample ID: ICV STD	5	Initial Calibration Verification Standard								11/11/10 09:57
Barium		0.0499	mg/L	0.10	100	90	110			
Cadmium		0.0262	mg/L	0.0010	105	90	110			
Lead		0.0481	mg/L	0.010	96	90	110			
Silver		0.0258	mg/L	0.0050	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS204-B_101110B								
Sample ID: ICV STD	5	Initial Calibration Verification Standard								11/11/10 09:57
Thallium		0.0509	mg/L	0.10	102	90	110			
Method: E200.8		Batch: R67099								
Sample ID: ICB	5	Method Blank				Run: ICPMS204-B_101110B			11/10/10 19:59	
Barium		4E-05	mg/L	2E-05						
Cadmium		ND	mg/L	1E-05						
Lead		1E-05	mg/L	1E-05						
Silver		7E-05	mg/L	2E-05						
Thallium		ND	mg/L	2E-05						
Sample ID: LFB	5	Laboratory Fortified Blank				Run: ICPMS204-B_101110B			11/10/10 20:02	
Barium		0.0477	mg/L	0.10	95	85	115			
Cadmium		0.0480	mg/L	0.0010	96	85	115			
Lead		0.0478	mg/L	0.010	96	85	115			
Silver		0.0193	mg/L	0.0050	96	85	115			
Thallium		0.0472	mg/L	0.10	94	85	115			
Sample ID: H10100339-001BMS	5	Sample Matrix Spike				Run: ICPMS204-B_101110B			11/10/10 21:28	
Barium		0.328	mg/L	0.10	83	70	130			
Cadmium		0.0952	mg/L	0.0010	95	70	130			
Lead		0.0981	mg/L	0.010	95	70	130			
Silver		0.0380	mg/L	0.0050	95	70	130			
Thallium		0.0942	mg/L	0.0050	94	70	130			
Sample ID: H10100339-001BMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS204-B_101110B			11/10/10 21:31	
Barium		0.329	mg/L	0.10	84	70	130	0.2	20	
Cadmium		0.0951	mg/L	0.0010	95	70	130	0.0	20	
Lead		0.0979	mg/L	0.010	95	70	130	0.2	20	
Silver		0.0390	mg/L	0.0050	97	70	130	2.5	20	
Thallium		0.0930	mg/L	0.0050	93	70	130	1.3	20	
Sample ID: H10100427-012EMS	5	Sample Matrix Spike				Run: ICPMS204-B_101110B			11/10/10 22:38	
Barium		0.0452	mg/L	0.10	90	70	130			
Cadmium		0.0457	mg/L	0.0010	91	70	130			
Lead		0.0450	mg/L	0.010	90	70	130			
Silver		0.0181	mg/L	0.0050	90	70	130			
Thallium		0.0444	mg/L	0.0050	89	70	130			
Sample ID: H10100427-012EMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS204-B_101110B			11/10/10 22:41	
Barium		0.0450	mg/L	0.10	90	70	130		20	
Cadmium		0.0458	mg/L	0.0010	92	70	130	0.1	20	
Lead		0.0447	mg/L	0.010	89	70	130	0.8	20	
Silver		0.0180	mg/L	0.0050	90	70	130	0.4	20	
Thallium		0.0439	mg/L	0.0050	88	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R67099										
Sample ID: H10110089-006BMS	5	Sample Matrix Spike		Run: ICPMS204-B_101110B				11/10/10 23:54		
Barium		0.0721	mg/L	0.10	96	70	130			
Cadmium		0.0470	mg/L	0.0010	94	70	130			
Lead		0.0474	mg/L	0.010	95	70	130			
Silver		0.0172	mg/L	0.0050	86	70	130			
Thallium		0.0468	mg/L	0.0050	94	70	130			
Sample ID: H10110089-006BMSD	5	Sample Matrix Spike Duplicate		Run: ICPMS204-B_101110B				11/10/10 23:57		
Barium		0.0721	mg/L	0.10	96	70	130		20	
Cadmium		0.0469	mg/L	0.0010	94	70	130	0.1	20	
Lead		0.0475	mg/L	0.010	95	70	130	0.3	20	
Silver		0.0170	mg/L	0.0050	85	70	130	1.1	20	
Thallium		0.0472	mg/L	0.0050	94	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC101-H_101101A		
Sample ID: ICV110110-12	2	Initial Calibration Verification Standard								11/01/10 16:43
Chloride		100	mg/L	1.0	100	90	110			
Sulfate		400	mg/L	1.0	101	90	110			
Sample ID: CCV-110110-30	2	Continuing Calibration Verification Standard								11/01/10 21:39
Chloride		100	mg/L	1.0	102	90	110			
Sulfate		400	mg/L	1.0	101	90	110			
Sample ID: CCV-110110-44	2	Continuing Calibration Verification Standard								11/02/10 01:28
Chloride		100	mg/L	1.0	101	90	110			
Sulfate		400	mg/L	1.0	100	90	110			
Method: E300.0								Batch: R66706		
Sample ID: ICB110110-13	2	Method Blank				Run: IC101-H_101101A				11/01/10 16:59
Chloride		ND	mg/L	0.2						
Sulfate		ND	mg/L	0.5						
Sample ID: LFB110110-14	2	Laboratory Fortified Blank				Run: IC101-H_101101A				11/01/10 17:16
Chloride		50	mg/L	1.0	101	90	110			
Sulfate		200	mg/L	1.1	100	90	110			
Sample ID: H10100407-014AMS	2	Sample Matrix Spike				Run: IC101-H_101101A				11/01/10 23:34
Chloride		55	mg/L	1.0	105	90	110			
Sulfate		220	mg/L	1.1	106	90	110			
Sample ID: H10100407-014AMSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_101101A				11/01/10 23:50
Chloride		55	mg/L	1.0	104	90	110	1.0	20	
Sulfate		220	mg/L	1.1	104	90	110	1.7	20	
Sample ID: H10100425-004AMS	2	Sample Matrix Spike				Run: IC101-H_101101A				11/02/10 02:34
Chloride		60	mg/L	1.0	110	90	110			
Sulfate		280	mg/L	1.1	123	90	110			S
Sample ID: H10100425-004AMSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_101101A				11/02/10 02:51
Chloride		63	mg/L	1.0	116	90	110	4.7	20	S
Sulfate		310	mg/L	1.1	138	90	110	10	20	S

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC101-H_101102A		
Sample ID: ICV110210-12	2	Initial Calibration Verification Standard								11/02/10 15:55
Chloride		100	mg/L	1.0	101	90	110			
Sulfate		400	mg/L	1.0	101	90	110			
Sample ID: CCV-110210-72	2	Continuing Calibration Verification Standard								11/03/10 08:04
Chloride		100	mg/L	1.0	102	90	110			
Sulfate		400	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R66805		
Sample ID: ICB110210-13	2	Method Blank								Run: IC101-H_101102A 11/02/10 16:12
Chloride		ND	mg/L	0.2						
Sulfate		ND	mg/L	0.5						
Sample ID: LFB110210-14	2	Laboratory Fortified Blank								Run: IC101-H_101102A 11/02/10 16:28
Chloride		49	mg/L	1.0	98	90	110			
Sulfate		200	mg/L	1.1	98	90	110			
Sample ID: H10100437-013AMS	2	Sample Matrix Spike								Run: IC101-H_101102A 11/03/10 09:43
Chloride		56	mg/L	1.0	99	90	110			
Sulfate		250	mg/L	1.1	100	90	110			
Sample ID: H10100437-013AMSD	2	Sample Matrix Spike Duplicate								Run: IC101-H_101102A 11/03/10 09:59
Chloride		59	mg/L	1.0	104	90	110	4.5	20	
Sulfate		260	mg/L	1.1	105	90	110	3.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Department of Transportation
State of Maryland

GAO Summary Report

GAO Report #2010-107
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GAO Report #2010-107

Category	Item	Value	Unit	GAO Report #2010-107	GAO Report #2010-107	GAO Report #2010-107
Category 1	Item 1	100	unit	100	100	100
Category 1	Item 2	200	unit	200	200	200
Category 1	Item 3	300	unit	300	300	300
Category 2	Item 1	400	unit	400	400	400
Category 2	Item 2	500	unit	500	500	500
Category 2	Item 3	600	unit	600	600	600
Category 3	Item 1	700	unit	700	700	700
Category 3	Item 2	800	unit	800	800	800
Category 3	Item 3	900	unit	900	900	900
Category 4	Item 1	1000	unit	1000	1000	1000
Category 4	Item 2	1100	unit	1100	1100	1100
Category 4	Item 3	1200	unit	1200	1200	1200
Category 5	Item 1	1300	unit	1300	1300	1300
Category 5	Item 2	1400	unit	1400	1400	1400
Category 5	Item 3	1500	unit	1500	1500	1500
Category 6	Item 1	1600	unit	1600	1600	1600
Category 6	Item 2	1700	unit	1700	1700	1700
Category 6	Item 3	1800	unit	1800	1800	1800
Category 7	Item 1	1900	unit	1900	1900	1900
Category 7	Item 2	2000	unit	2000	2000	2000
Category 7	Item 3	2100	unit	2100	2100	2100
Category 8	Item 1	2200	unit	2200	2200	2200
Category 8	Item 2	2300	unit	2300	2300	2300
Category 8	Item 3	2400	unit	2400	2400	2400
Category 9	Item 1	2500	unit	2500	2500	2500
Category 9	Item 2	2600	unit	2600	2600	2600
Category 9	Item 3	2700	unit	2700	2700	2700
Category 10	Item 1	2800	unit	2800	2800	2800
Category 10	Item 2	2900	unit	2900	2900	2900
Category 10	Item 3	3000	unit	3000	3000	3000

GAO Report #2010-107
GAO Report #2010-107

GAO Report #2010-107
GAO Report #2010-107



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Analytical Run: NUTRIENTS_101028A
Sample ID: ICV-1 Initial Calibration Verification Standard										10/28/10 13:10
Nitrogen, Nitrate+Nitrite as N		1.04	mg/L	0.050	104	90	110			
Sample ID: ICB Initial Calibration Blank, Instrument Blank										10/28/10 13:20
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.050		0	0			
Sample ID: CCV-33 Continuing Calibration Verification Standard										10/28/10 14:14
Nitrogen, Nitrate+Nitrite as N		0.520	mg/L	0.050	104	90	110			
Method: E353.2										Batch: A2010-10-28_5_NO3_01
Sample ID: LCS-2 Laboratory Control Sample										Run: NUTRIENTS_101028A 10/28/10 13:12
Nitrogen, Nitrate+Nitrite as N		17.8	mg/L	0.10	97	90	110			
Sample ID: LFB-3 Laboratory Fortified Blank										Run: NUTRIENTS_101028A 10/28/10 13:14
Nitrogen, Nitrate+Nitrite as N		1.04	mg/L	0.050	104	90	110			
Sample ID: MBLK-7 Method Blank										Run: NUTRIENTS_101028A 10/28/10 13:21
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.006						
Sample ID: H10100425-005CMS Sample Matrix Spike										Run: NUTRIENTS_101028A 10/28/10 14:26
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.050	102	90	110			
Sample ID: H10100425-005CMSD Sample Matrix Spike Duplicate										Run: NUTRIENTS_101028A 10/28/10 14:28
Nitrogen, Nitrate+Nitrite as N		1.04	mg/L	0.050	104	90	110	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Approved by: [Signature]
Date: 10/10/2019

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GAO Summary Report

Client: MT DSO

Project: MT DSO

Report Date: 10/10/2019
Work Order: 10101010

Analysis	Issue	Root Cause	Impact	Severity	Frequency	Resolution	Owner
Analysis 10101	Issue 10101	Root Cause 10101	Impact 10101	Severity 10101	Frequency 10101	Resolution 10101	Owner 10101
Analysis 10102	Issue 10102	Root Cause 10102	Impact 10102	Severity 10102	Frequency 10102	Resolution 10102	Owner 10102
Analysis 10103	Issue 10103	Root Cause 10103	Impact 10103	Severity 10103	Frequency 10103	Resolution 10103	Owner 10103
Analysis 10104	Issue 10104	Root Cause 10104	Impact 10104	Severity 10104	Frequency 10104	Resolution 10104	Owner 10104
Analysis 10105	Issue 10105	Root Cause 10105	Impact 10105	Severity 10105	Frequency 10105	Resolution 10105	Owner 10105
Analysis 10106	Issue 10106	Root Cause 10106	Impact 10106	Severity 10106	Frequency 10106	Resolution 10106	Owner 10106
Analysis 10107	Issue 10107	Root Cause 10107	Impact 10107	Severity 10107	Frequency 10107	Resolution 10107	Owner 10107
Analysis 10108	Issue 10108	Root Cause 10108	Impact 10108	Severity 10108	Frequency 10108	Resolution 10108	Owner 10108
Analysis 10109	Issue 10109	Root Cause 10109	Impact 10109	Severity 10109	Frequency 10109	Resolution 10109	Owner 10109
Analysis 10110	Issue 10110	Root Cause 10110	Impact 10110	Severity 10110	Frequency 10110	Resolution 10110	Owner 10110

Client: MT DSO
Project: MT DSO

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Date: 10/10/2019
Page 10 of 20

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: R66787								
Sample ID: CCV110210B		54 Continuing Calibration Verification Standard								11/02/10 12:07
Acetone		48.0	ug/L	20	96	70	130			
Acrylonitrile		43.6	ug/L	20	87	70	130			
Benzene		4.56	ug/L	1.0	91	70	130			
Bromochloromethane		6.40	ug/L	1.0	128	70	130			
Bromodichloromethane		4.92	ug/L	1.0	98	70	130			
Bromoform		5.24	ug/L	1.0	105	70	130			
Bromomethane		4.60	ug/L	1.0	92	70	130			
Carbon disulfide		4.80	ug/L	1.0	96	70	130			
Carbon tetrachloride		4.72	ug/L	1.0	94	70	130			
Chlorobenzene		4.80	ug/L	1.0	96	70	130			
Chlorodibromomethane		4.72	ug/L	1.0	94	70	130			
Chloroethane		4.40	ug/L	1.0	88	70	130			
Chloroform		5.44	ug/L	1.0	109	80	120			
Chloromethane		5.00	ug/L	1.0	100	70	130			
1,2-Dibromo-3-chloropropane		4.72	ug/L	1.0	94	70	130			
1,2-Dibromoethane		4.36	ug/L	1.0	87	70	130			
Dibromomethane		4.64	ug/L	1.0	93	70	130			
1,2-Dichlorobenzene		4.80	ug/L	1.0	96	70	130			
1,4-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
trans-1,4-Dichloro-2-butene		4.76	ug/L	1.0	95	70	130			
Dichlorodifluoromethane		4.24	ug/L	1.0	85	70	130			
1,1-Dichloroethane		4.76	ug/L	1.0	95	70	130			
1;2-Dichloroethane		4.44	ug/L	1.0	89	70	130			
1,1-Dichloroethene		4.96	ug/L	1.0	99	80	120			
cis-1,2-Dichloroethene		5.00	ug/L	1.0	100	70	130			
trans-1,2-Dichloroethene		4.76	ug/L	1.0	95	70	130			
1,2-Dichloropropane		4.76	ug/L	1.0	95	80	120			
cis-1,3-Dichloropropene		4.76	ug/L	1.0	95	70	130			
trans-1,3-Dichloropropene		4.72	ug/L	1.0	94	70	130			
Ethylbenzene		5.16	ug/L	1.0	103	80	120			
2-Hexanone		43.2	ug/L	20	86	70	130			
Iodomethane		4.60	ug/L	1.0	92	70	130			
Methyl ethyl ketone		48.4	ug/L	20	97	70	130			
Methyl isobutyl ketone		41.6	ug/L	20	83	70	130			
Methylene chloride		4.64	ug/L	1.0	93	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		4.76	ug/L	1.0	95	70	130			
1,1,2,2-Tetrachloroethane		4.92	ug/L	1.0	98	70	130			
Tetrachloroethene		4.96	ug/L	1.0	99	70	130			
Toluene		4.84	ug/L	1.0	97	80	120			
1,1,1-Trichloroethane		6.12	ug/L	1.0	122	70	130			
1,1,2-Trichloroethane		4.76	ug/L	1.0	95	70	130			
Trichloroethene		4.52	ug/L	1.0	90	70	130			
Trichlorofluoromethane		5.00	ug/L	1.0	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: R66787
Sample ID: CCV110210B	54	Continuing Calibration Verification Standard								
										11/02/10 12:07
1,2,3-Trichloropropane		4.60	ug/L	1.0	92	70	130			
Vinyl acetate		5.04	ug/L	1.0	101	70	130			
Vinyl chloride		4.72	ug/L	1.0	94	80	120			
m+p-Xylenes		10.2	ug/L	1.0	102	70	130			
o-Xylene		4.92	ug/L	1.0	98	70	130			
Xylenes, Total		15.2	ug/L	1.0	101	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	94	70	130			
Surr: Dibromofluoromethane				1.0	99	70	130			
Surr: p-Bromofluorobenzene				1.0	105	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Method: SW8260B										Batch: R66787
Sample ID: LCS110210A	54	Laboratory Control Sample								
										Run: 1SATURN_101102B
										11/02/10 12:51
Acetone		41.6	ug/L	20	83	70	130			
Acrylonitrile		45.2	ug/L	20	90	70	130			
Benzene		4.72	ug/L	1.0	94	70	130			
Bromochloromethane		5.68	ug/L	1.0	114	70	130			
Bromodichloromethane		5.08	ug/L	1.0	102	70	130			
Bromoform		5.48	ug/L	1.0	110	70	130			
Bromomethane		4.96	ug/L	1.0	99	70	130			
Carbon disulfide		4.80	ug/L	1.0	96	70	130			
Carbon tetrachloride		4.88	ug/L	1.0	98	70	130			
Chlorobenzene		4.84	ug/L	1.0	97	70	130			
Chlorodibromomethane		4.88	ug/L	1.0	98	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		5.72	ug/L	1.0	114	70	130			
Chloromethane		5.32	ug/L	1.0	106	70	130			
1,2-Dibromo-3-chloropropane		5.20	ug/L	1.0	104	70	130			
1,2-Dibromoethane		4.56	ug/L	1.0	91	70	130			
Dibromomethane		4.68	ug/L	1.0	94	70	130			
1,2-Dichlorobenzene		4.56	ug/L	1.0	91	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
trans-1,4-Dichloro-2-butene		5.04	ug/L	1.0	101	70	130			
Dichlorodifluoromethane		5.16	ug/L	1.0	103	70	130			
1,1-Dichloroethane		4.96	ug/L	1.0	99	70	130			
1,2-Dichloroethane		4.68	ug/L	1.0	94	70	130			
1,1-Dichloroethene		4.96	ug/L	1.0	99	70	130			
cis-1,2-Dichloroethene		4.88	ug/L	1.0	98	70	130			
trans-1,2-Dichloroethene		4.80	ug/L	1.0	96	70	130			
1,2-Dichloropropane		5.04	ug/L	1.0	101	70	130			
cis-1,3-Dichloropropene		5.04	ug/L	1.0	101	70	130			
trans-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		42.4	ug/L	20	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R66787
Sample ID: LCS110210A	54	Laboratory Control Sample				Run: 1SATURN_101102B				11/02/10 12:51
Iodomethane		4.24	ug/L	1.0	85	70	130			
Methyl ethyl ketone		44.0	ug/L	20	88	70	130			
Methyl isobutyl ketone		40.8	ug/L	20	82	70	130			
Methylene chloride		4.64	ug/L	1.0	93	70	130			
Styrene		5.08	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		4.96	ug/L	1.0	99	70	130			
1,1,2,2-Tetrachloroethane		4.68	ug/L	1.0	94	70	130			
Tetrachloroethene		5.08	ug/L	1.0	102	70	130			
Toluene		5.04	ug/L	1.0	101	70	130			
1,1,1-Trichloroethane		6.32	ug/L	1.0	126	70	130			
1,1,2-Trichloroethane		4.96	ug/L	1.0	99	70	130			
Trichloroethene		4.84	ug/L	1.0	97	70	130			
Trichlorofluoromethane		4.72	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		6.36	ug/L	1.0	127	70	130			
Vinyl acetate		4.48	ug/L	1.0	90	70	130			
Vinyl chloride		5.08	ug/L	1.0	102	70	130			
m+p-Xylenes		10.5	ug/L	1.0	105	70	130			
o-Xylene		5.08	ug/L	1.0	102	70	130			
Xylenes, Total		15.6	ug/L	1.0	104	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	95	70	130			
Surr: Dibromofluoromethane				1.0	98	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	108	70	130			
Sample ID: MB110210A	54	Method Blank				Run: 1SATURN_101102B				11/02/10 13:51
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R66787
Sample ID: MB110210A	54	Method Blank				Run: 1SATURN_101102B				11/02/10 13:51
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	97	70	130			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	105	70	130			
Surr: Toluene-d8				1.0	109	70	130			
Sample ID: H10100425-001DMS	54	Sample Matrix Spike				Run: 1SATURN_101102B				11/02/10 21:52
Acetone		80.8	ug/L	40	81	70	130			
Acrylonitrile		87.2	ug/L	40	87	70	130			
Benzene		10.5	ug/L	2.0	97	70	130			
Bromochloromethane		7.00	ug/L	2.0	70	70	130			
Bromodichloromethane		11.2	ug/L	2.0	112	70	130			
Bromoform		10.8	ug/L	2.0	108	70	130			
Bromomethane		9.44	ug/L	2.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R66787
Sample ID: H10100425-001DMS	54	Sample Matrix Spike		Run: 1SATURN_101102B						11/02/10 21:52
Carbon disulfide		9.60	ug/L	2.0	96	70	130			
Carbon tetrachloride		9.44	ug/L	2.0	94	70	130			
Chlorobenzene		10.0	ug/L	2.0	100	70	130			
Chlorodibromomethane		10.1	ug/L	2.0	101	70	130			
Chloroethane		8.24	ug/L	2.0	82	70	130			
Chloroform		9.76	ug/L	2.0	98	70	130			
Chloromethane		9.60	ug/L	2.0	96	70	130			
1,2-Dibromo-3-chloropropane		9.12	ug/L	2.0	91	70	130			
1,2-Dibromoethane		9.60	ug/L	2.0	96	70	130			
Dibromomethane		10.4	ug/L	2.0	104	70	130			
1,2-Dichlorobenzene		9.44	ug/L	2.0	94	70	130			
1,4-Dichlorobenzene		9.68	ug/L	2.0	97	70	130			
trans-1,4-Dichloro-2-butene		8.48	ug/L	2.0	85	70	130			
Dichlorodifluoromethane		9.68	ug/L	2.0	97	70	130			
1,1-Dichloroethane		9.04	ug/L	2.0	90	70	130			
1,2-Dichloroethane		9.28	ug/L	2.0	93	70	130			
1,1-Dichloroethene		9.52	ug/L	2.0	95	70	130			
cis-1,2-Dichloroethene		26.2	ug/L	2.0	67	70	130			S
trans-1,2-Dichloroethene		9.28	ug/L	2.0	93	70	130			
1,2-Dichloropropane		10.3	ug/L	2.0	103	70	130			
cis-1,3-Dichloropropene		10.9	ug/L	2.0	109	70	130			
trans-1,3-Dichloropropene		10.2	ug/L	2.0	102	70	130			
Ethylbenzene		10.4	ug/L	2.0	88	70	130			
2-Hexanone		91.2	ug/L	40	91	70	130			
Iodomethane		8.80	ug/L	2.0	88	70	130			
Methyl ethyl ketone		86.4	ug/L	40	86	70	130			
Methyl isobutyl ketone		90.4	ug/L	40	90	70	130			
Methylene chloride		8.56	ug/L	2.0	86	70	130			
Styrene		10.7	ug/L	2.0	89	70	130			
1,1,1,2-Tetrachloroethane		10.2	ug/L	2.0	102	70	130			
1,1,2,2-Tetrachloroethane		9.84	ug/L	2.0	98	70	130			
Tetrachloroethene		10.9	ug/L	2.0	109	70	130			
Toluene		10.3	ug/L	2.0	103	70	130			
1,1,1-Trichloroethane		9.52	ug/L	2.0	95	70	130			
1,1,2-Trichloroethane		10.3	ug/L	2.0	103	70	130			
Trichloroethene		10.1	ug/L	2.0	101	70	130			
Trichlorofluoromethane		8.88	ug/L	2.0	89	70	130			
1,2,3-Trichloropropane		10.6	ug/L	2.0	106	70	130			
Vinyl acetate		7.50	ug/L	2.0	75	70	130			
Vinyl chloride		9.36	ug/L	2.0	88	70	130			
m+p-Xylenes		20.9	ug/L	2.0	102	70	130			
o-Xylene		10.6	ug/L	2.0	106	70	130			
Xylenes, Total		31.4	ug/L	2.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	92	70	130			

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R66787
Sample ID: H10100425-001DMS	54	Sample Matrix Spike		Run: 1SATURN_101102B		11/02/10 21:52				
Surr: Dibromofluoromethane				2.0	97	70	130			
Surr: p-Bromofluorobenzene				2.0	107	70	130			
Surr: Toluene-d8				2.0	113	70	130			
Sample ID: H10100425-001DMSD	54	Sample Matrix Spike Duplicate		Run: 1SATURN_101102B		11/02/10 22:22				
Acetone		87.2	ug/L	40	87	70	130	7.6	20	
Acrylonitrile		86.4	ug/L	40	86	70	130	0.9	20	
Benzene		9.60	ug/L	2.0	89	70	130	8.8	20	
Bromochloromethane		5.74	ug/L	2.0	57	70	130	20	20	S
Bromodichloromethane		10.2	ug/L	2.0	102	70	130	9.0	20	
Bromoform		9.76	ug/L	2.0	98	70	130	10	20	
Bromomethane		8.72	ug/L	2.0	87	70	130	7.9	20	
Carbon disulfide		8.88	ug/L	2.0	89	70	130	7.8	20	
Carbon tetrachloride		9.28	ug/L	2.0	93	70	130	1.7	20	
Chlorobenzene		9.84	ug/L	2.0	98	70	130	1.6	20	
Chlorodibromomethane		9.92	ug/L	2.0	99	70	130	1.6	20	
Chloroethane		7.90	ug/L	2.0	79	70	130	4.3	20	
Chloroform		9.28	ug/L	2.0	93	70	130	5.0	20	
Chloromethane		9.44	ug/L	2.0	94	70	130	1.7	20	
1,2-Dibromo-3-chloropropane		8.40	ug/L	2.0	84	70	130	8.2	20	
1,2-Dibromoethane		9.28	ug/L	2.0	93	70	130	3.4	20	
Dibromomethane		10.0	ug/L	2.0	100	70	130	3.9	20	
1,2-Dichlorobenzene		8.96	ug/L	2.0	90	70	130	5.2	20	
1,4-Dichlorobenzene		9.92	ug/L	2.0	99	70	130	2.4	20	
trans-1,4-Dichloro-2-butene		9.52	ug/L	2.0	95	70	130	12	20	
Dichlorodifluoromethane		9.12	ug/L	2.0	91	70	130	6.0	20	
1,1-Dichloroethane		8.64	ug/L	2.0	86	70	130	4.5	20	
1,2-Dichloroethane		8.88	ug/L	2.0	89	70	130	4.4	20	
1,1-Dichloroethene		9.12	ug/L	2.0	91	70	130	4.3	20	
cis-1,2-Dichloroethene		24.5	ug/L	2.0	49	70	130	6.9	20	S
trans-1,2-Dichloroethene		9.28	ug/L	2.0	93	70	130	0.0	20	
1,2-Dichloropropane		10.0	ug/L	2.0	100	70	130	3.1	20	
cis-1,3-Dichloropropene		10.4	ug/L	2.0	104	70	130	4.5	20	
trans-1,3-Dichloropropene		10.1	ug/L	2.0	101	70	130	1.6	20	
Ethylbenzene		10.4	ug/L	2.0	88	70	130	0.0	20	
2-Hexanone		93.6	ug/L	40	94	70	130	2.6	20	
Iodomethane		8.56	ug/L	2.0	86	70	130	2.8	20	
Methyl ethyl ketone		84.0	ug/L	40	84	70	130	2.8	20	
Methyl isobutyl ketone		88.0	ug/L	40	88	70	130	2.7	20	
Methylene chloride		8.72	ug/L	2.0	87	70	130	1.9	20	
Styrene		10.0	ug/L	2.0	82	70	130	6.9	20	
1,1,1,2-Tetrachloroethane		10.0	ug/L	2.0	100	70	130	2.4	20	
1,1,2,2-Tetrachloroethane		9.68	ug/L	2.0	97	70	130	1.6	20	
Tetrachloroethene		10.3	ug/L	2.0	103	70	130	5.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/21/10
Work Order: H10100425

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R66787
Sample ID: H10100425-001DMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_101102B 11/02/10 22:22
Toluene		10.1	ug/L	2.0	101	70	130	2.4	20	
1,1,1-Trichloroethane		8.88	ug/L	2.0	89	70	130	7.0	20	
1,1,2-Trichloroethane		9.60	ug/L	2.0	96	70	130	7.2	20	
Trichloroethene		9.44	ug/L	2.0	94	70	130	6.6	20	
Trichlorofluoromethane		8.64	ug/L	2.0	86	70	130	2.7	20	
1,2,3-Trichloropropane		11.3	ug/L	2.0	113	70	130	6.6	20	
Vinyl acetate		9.04	ug/L	2.0	90	70	130	19	20	
Vinyl chloride		8.64	ug/L	2.0	81	70	130	8.0	20	
m+p-Xylenes		20.1	ug/L	2.0	98	70	130	3.9	20	
o-Xylene		9.92	ug/L	2.0	99	70	130	6.2	20	
Xylenes, Total		30.0	ug/L	2.0	99	70	130	4.7	20	
Surr: 1,2-Dichloroethane-d4				2.0	93	70	130	0.0	20	
Surr: Dibromofluoromethane				2.0	92	70	130	0.0	20	
Surr: p-Bromofluorobenzene				2.0	102	70	130	0.0	20	
Surr: Toluene-d8				2.0	111	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



H10100425

MT DEQ

Login completed by: Wanda Johnson

Date Received: 10/27/2010

Reviewed by: BL2000\kwiegand

Received by: TLL

Reviewed Date: 11/5/2010

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	5.6°C		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Chain of Custody and Analytical Request Record

 Page 1 of 1

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ	Project Name, PWS, Permit, Etc. Martin M Landfill	Sample Origin State: MT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: PO Box 200901	Contact Name: Martin Van Oort	Phone/Fax: 444-2802	Email: mvanort@mt.gov
Invoice Address: same	Invoice Contact & Phone: same	Purchase Order:	Quote/Bottle Order: 6806

Special Report/Formats:

- ☐ DW
☐ POTW/WWTP
☐ State:
☐ Other:
- ☐ EDD/EDT (Electronic Data)
 Format: _____
☐ LEVEL IV
☐ NELAC

 Number of Containers:
 Sample Type: A W S V B O D W
 Air Water Solids
 Vegetation Bioassay Other
 DW - Drinking Water

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

 R
U
S
H

 Contact ELI prior to
RUSH sample submittal
 for charges and
 scheduling - See
 Instruction Page

Comments:

 Shipped by:
Hand del
 Cooler ID(s):
Y

 Receipt Temp
5.4 °C

 On Ice: **Y (R)**

 Custody Seal
 On Bottle **Y (R)**
 On Cooler **Y (R)**

 Intact **Y N**

 Signature Match **Y N**

 LABORATORY USE ONLY
#10106425-
 {

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1 M-M-MW-OW	10/25/10	1705	W
2 M-M-MW-9R	10/26/10	825	
3 M-M-MW-11	10/26/10	1200	
4 M-M-MW-12	10/27/10	910	
5 M-M-MW-12-DLP	10/27/10	915	
6 Trip Blank	10/29/10	-	
7			
8			
9			
10			

 Dissolved Metals
 Nitrate/Nitrite
 Sulfate, Chloride, pH, Hardness
 8260 VOCs

Custody Record MUST be Signed	Relinquished by (print): Martin Van Oort	Date/Time: 10/27/10 18:16	Signature: <i>[Signature]</i>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal:	Return to Client:	Lab Disposal:	Received by Laboratory: Tracy Loral	Date/Time: 10/27/10 14:16	Signature: <i>[Signature]</i>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

PATIENT INFORMATION		PHYSICIAN INFORMATION		EXAMINATION INFORMATION		RESULTS		REMARKS	
NAME	AGE	DATE	TIME	LOCATION	TYPE	DATE	TIME	LOCATION	TYPE
John Doe	45	10/10/2023	10:00	Room 101	Physical	10/10/2023	10:00	Room 101	Physical
Vital Signs		Blood Pressure		Heart Rate		Respiratory Rate		Temperature	
120/80	70	120/80	70	70	20	98.6	98.6	98.6	98.6
Physical Examination		Neurological		Cardiovascular		Respiratory		Gastrointestinal	
Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Laboratory Tests		Imaging Studies		Special Studies		Pathology		Other	
None	None	None	None	None	None	None	None	None	None
Diagnosis		Treatment		Prognosis		Follow-up		Comments	
None	None	None	None	None	None	None	None	None	None

Table 1: Analytical Parameters.Inorganics

pH

Specific conductance

Chloride

Sulfate

Nitrate/Nitrite (as N)

Dissolved Metals

Antimony (Sb)

Arsenic (As)

Barium (Ba)

Beryllium (Be)

Cadmium (Cd)

Chromium (Cr)

Cobalt (Co)

Copper (Cu)

Iron (Fe)

Lead (Pb)

Nickel (Ni)

Selenium (Se)

Silver (Ag)

Thallium (Tl)

Vanadium (V)

Zinc (Zn)

Volatile Organic Compounds (VOCs by EPA method 8260)

Acetone ✓

Acrylonitrile ✓

Benzene ✓

Bromochloromethane ✓

Bromodichloromethane ✓

Bromoform

Bromomethane (Methyl bromide)

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane (Methyl chloride)

Chlorine (ethyl chloride)

Chlorine

Chloroform

Chloroform (ethyl chloride)

Chloroform

Carbon tetrachloride

Carbon tetrachloride

Bromochloroform (ethyl bromide)

Bromochloroform

Bromochloroform

Bromochloroform

Bromochloroform

Bromochloroform

Bromochloroform

Bromochloroform

Volatile Organic Compounds (VOCs) by EPA method 8260

Zinc (Zn)

Vanadium (V)

Tellurium (Te)

Silver (Ag)

Selenium (Se)

Nickel (Ni)

Lead (Pb)

Iron (Fe)

Copper (Cu)

Cobalt (Co)

Chromium (Cr)

Cadmium (Cd)

Beryllium (Be)

Barium (Ba)

Arsenic (As)

Antimony (Sb)

Classified Metals

Monochloro (as H)

Sulfate

Chloride

Specific conductance

pH

Insoluble

Table 1: Analytical Parameters

1,2-Dibromo-3-chloropropane (DCBP)
1,2-Dibromoethane (EDB)
Dibromomethane (Methylene bromide)
1,2-Dichlorobenzene
1,4-Dichlorobenzene
trans-1,4-Dichloro-2-butene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Dichlorodifluoromethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Ethylbenzene
2-Hexanone (Methyl butyl ketone)
Iodomethane (Methyl iodide)
Methylene chloride
Methyl ethyl ketone (MEK)
4-Methyl-2-pentanone (Methyl isobutyl ketone)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trichloropropane
Vinyl acetate
Vinyl chloride
Xylenes

Closed

County Forges

Facility & # Myster M #302

Closure

Landfarm

Finan Assur

Liner

GW Corr Meas

Methane

GW Monitoring

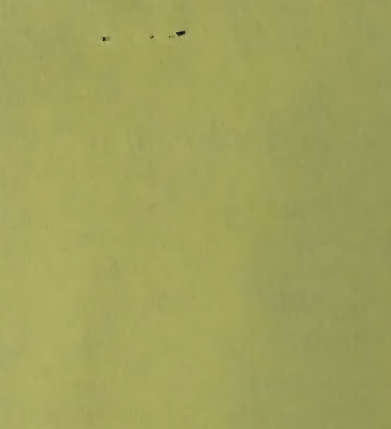
O & M

GW Reports

Run-on

Inspections

Other: _____



Water Level Measurement Form

Site Name: Master M Date: 6-21-10

Personnel: Master Van Dorn Equipment: Slaps indicator 300 FT

Field Conditions: Mostly cloudy, breezy, sprinkles

[illegible]

Notes: _____

Signature: rlc Page 1 of 1



Martin Van Oort

Sunny 30's to 40's, calm, snow cover, depths to 2'

Will break in
abstract at 41

Signature: _____

Page cf



ANALYTICAL SUMMARY REPORT

November 13, 2009

Martin VanDort

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09100352

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 7 samples for MT DEQ on 10/28/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100352-001	MrM-MW-DW OW -MVD	10/26/09 13:30	10/28/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09100352-002	MrM-MW-HW	10/26/09 16:30	10/28/09	Aqueous	Same As Above
H09100352-003	MrM-MW-10R	10/27/09 9:00	10/28/09	Aqueous	Same As Above
H09100352-004	MrM-MW-10R-DUP	10/27/09 9:00	10/28/09	Aqueous	Same As Above
H09100352-005	MrM-MW-9R	10/27/09 8:30	10/28/09	Aqueous	Same As Above
H09100352-006	MrM-MW-FB	10/27/09 9:40	10/28/09	Aqueous	Same As Above
H09100352-007	SLD LOT# SHP0240	10/26/09 13:30	10/28/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

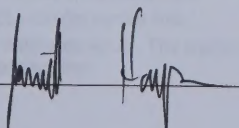
SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: 



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW-*BTOW*
-MVD

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.1	s.u.		0.1		A4500-H B	10/29/09 16:20 / hm
Conductivity	683	umhos/cm		1		A2510 B	10/28/09 19:57 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:47 / eli-b
Chloride	14	mg/L		1		E300.0	10/30/09 05:11 / hm
Sulfate	18	mg/L		1		E300.0	10/30/09 05:11 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	8	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:33 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Barium	0.1	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Iron	2.38	mg/L		0.03		E200.8	11/02/09 18:33 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:33 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:33 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:33 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:33 / dck
Zinc	0.04	mg/L		0.01		E200.8	11/02/09 18:33 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 20:19 / abb
Benzene	0.89	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW-DW 

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
cis-1,2-Dichloroethene	22	ug/L		5.0		SW8260B	11/09/09 14:40 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Ethylbenzene	5.4	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:15 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Styrene	2.1	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Trichloroethene	0.24	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Vinyl chloride	0.59	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
m+p-Xylenes	0.61	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 16:15 / abb
Xylenes, Total	0.61	ug/L	J	1.0		SW8260B	11/06/09 16:15 / abb
Surr: 1,2-Dichloroethane-d4	93.0	%REC		70-130		SW8260B	11/06/09 16:15 / abb

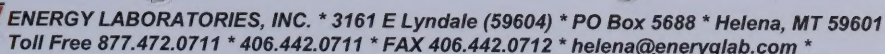
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-001
Client Sample ID: MrM-MW-DW OW
-mbo

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
DateReceived: 10/28/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-002
Client Sample ID: MrM-MW-HW

Report Date: 11/13/09
Collection Date: 10/26/09 16:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:21 / hm
Conductivity	795	umhos/cm		1		A2510 B	10/28/09 20:00 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:48 / eli-b
Chloride	8	mg/L		1		E300.0	10/30/09 06:00 / hm
Sulfate	36	mg/L		1		E300.0	10/30/09 06:00 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:06 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:40 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:40 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:40 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:40 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:40 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:40 / dck
Zinc	0.10	mg/L		0.01		E200.8	11/02/09 18:40 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 19:48 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

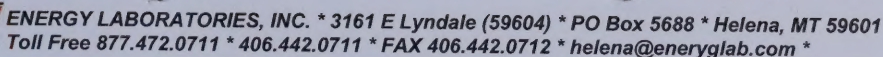
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-002
Client Sample ID: MrM-MW-HW

Report Date: 11/13/09
Collection Date: 10/26/09 16:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 15:45 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 15:45 / abb
Surr: 1,2-Dichloroethane-d4	90.0	%REC		70-130		SW8260B	11/06/09 15:45 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-003
Client Sample ID: MrM-MW-10R

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:23 / hm
Conductivity	1080	umhos/cm		1		A2510 B	10/28/09 20:08 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 12:50 / eli-b
Chloride	17	mg/L		1		E300.0	10/30/09 06:16 / hm
Sulfate	88	mg/L		1		E300.0	10/30/09 06:16 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.82	mg/L		0.05		E353.2	10/29/09 16:12 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:46 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:46 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:46 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
Selenium	0.081	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:46 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:46 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 18:46 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 20:49 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-003
Client Sample ID: MrM-MW-10R

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 16:46 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Toluene	0.19	ug/L	J	1.0		SW8260B	11/06/09 16:46 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 16:46 / abb
Surr: 1,2-Dichloroethane-d4	87.0	%REC		70-130		SW8260B	11/06/09 16:46 / abb

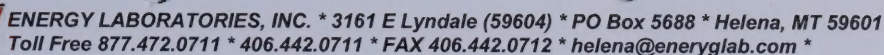
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Report Date: 11/13/09
Collection Date: 10/27/09 09:00
DateReceived: 10/28/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-004
Client Sample ID: MrM-MW-10R-DUP

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.2	s.u.		0.1		A4500-H B	10/29/09 16:24 / hm
Conductivity	1080	umhos/cm		1		A2510 B	10/28/09 20:11 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/04/09 15:29 / eli-b
Chloride	17	mg/L		1		E300.0	10/30/09 06:33 / hm
Sulfate	88	mg/L		1		E300.0	10/30/09 06:33 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.95	mg/L		0.05		E353.2	10/29/09 16:14 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 18:53 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 18:53 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 18:53 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
Selenium	0.071	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 18:53 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 18:53 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 18:53 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 15:11 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-004
Client Sample ID: MrM-MW-10R-DUP

Report Date: 11/13/09
Collection Date: 10/27/09 09:00
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:16 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Toluene	0.20	ug/L	J	1.0		SW8260B	11/06/09 17:16 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 17:16 / abb
Surr: 1,2-Dichloroethane-d4	86.0	%REC		70-130		SW8260B	11/06/09 17:16 / abb

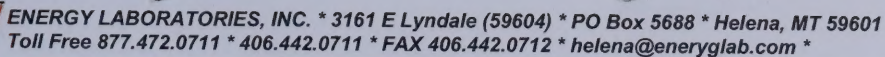
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Lab No: 10010020-04
 Project: Sample Name: 10010020-04
 Location: Analysis Date: 10/1/2004
 Date: Analysis Time: 10/1/2004 10:10
 Analyst: Lab No: 10010020-04

Analysis	Result	Unit	Method	Analysis Date
VOLATILE ORGANIC COMPOUNDS				
Acetone	100	ppm	GC/MS	10/1/2004 10:10
Chloroform	100	ppm	GC/MS	10/1/2004 10:10
Diethyl ether	100	ppm	GC/MS	10/1/2004 10:10



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

Report Date: 11/13/09
Collection Date: 10/27/09 08:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.		0.1		A4500-H B	10/29/09 16:25 / hm
Conductivity	922	umhos/cm		1		A2510 B	10/28/09 20:15 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 15:12 / eli-b
Chloride	14	mg/L		1		E300.0	10/30/09 07:22 / hm
Sulfate	82	mg/L		1		E300.0	10/30/09 07:22 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	4	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	4.04	mg/L		0.05		E353.2	10/29/09 16:16 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 19:00 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Iron	ND	mg/L		0.03		E200.8	11/02/09 19:00 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 19:00 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 19:00 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 19:00 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 19:00 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 15:41 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

Report Date: 11/13/09
Collection Date: 10/27/09 08:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
cis-1,2-Dichloroethene	2.8	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 17:47 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Tetrachloroethene	0.76	ug/L	J	1.0		SW8260B	11/06/09 17:47 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Trichloroethene	0.22	ug/L	J	1.0		SW8260B	11/06/09 17:47 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 17:47 / abb
Surr: 1,2-Dichloroethane-d4	90.0	%REC		70-130		SW8260B	11/06/09 17:47 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energyglab.com *

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-005
Client Sample ID: MrM-MW-9R

Report Date: 11/13/09
Collection Date: 10/27/09 08:30
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	101	%REC		70-130		SW8260B	11/06/09 17:47 / abb
Surr: p-Bromofluorobenzene	99.0	%REC		70-130		SW8260B	11/06/09 17:47 / abb
Surr: Toluene-d8	102	%REC		70-130		SW8260B	11/06/09 17:47 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist


H09100352
MT DEQ

Login completed by: Tracy L. Lorash

Date and Time Received: 10/28/2009 10:08 AM

Reviewed by: BL2000\wjohnson

Received by: rlt

Reviewed Date: 10/29/2009 8:49:27 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	2.2°C From Field		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	Not Applicable ☐

Contact and Corrective Action Comments:

No unpreserved bottles sent with client. Client did not preserve sample for cyanide. Poured off sample from cyanide container before preserving with sodium hydroxide. Preserved cyanide bottles with 2ml. Sodium hydroxide. FB sample 2ml. HNO3 to dissolved metals sample. 2ml. H2SO4 to nutrient sample. TL

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ Solid Waste		Project Name, PWS, Permit, Etc. Mister M Landfill		Sample Origin State: MT		EPA/State Compliance: Yes ☒ No ☐		
Report Mail Address: 1520 East Sixth Ave, Helena, MT 59620		Contact Name: Martin Van Dant		Phone/Fax: 444-2802		Email: mmv@montgo.mt.gov		
Invoice Address: Same		Invoice Contact & Phone: Same		Purchase Order: 4814		Quote/Bottle Order: 4814		
Special Report/Formats - ELI must be notified prior to sample submittal for the following: ☐ DW ☐ A2LA ☐ GSA ☐ EDD/EDT (Electronic Data) ☐ POTW/MWWTP Format: _____ ☐ State: _____ ☐ LEVEL IV ☐ Other: _____ ☐ NELAC		Number of Containers Sample Type: A W S V B O Vegetation Bioassay Other		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: Run full sample list. * Green topped bottles upros, no whole topped bottles included. Please call re. Cyanide analysis.		Shipped by: Cooler ID(s): Receipt Temp: 2.2 °C On Ice: ☒ Yes ☐ No Custody Seal: Y N Bottles/ Coolers: B C Intact: Y N Signature Match: Y N
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY			
1. M-M-MW-OW	10/26/09	1330	6W	Dissolved Metals Nitrates/Nitrite, COD pH Cond, Amms* 8260 VOCs Cyanide (mg/L)				
2. M-M-MW-HW	10/26/09	1630	6W					
3. M-M-MW-10R	10/27/09	900	6W					
4. M-M-MW-10R-DUP	10/27/09	900	6W					
5. M-M-MW-9R	10/27/09	830	6W					
6. M-M-MW-FB	10/27/09	940	6W					
7. Trip Blank								
8								
9								
10								
Relinquished by (print): Martin Van Dant		Date/Time: 10/23/09 10:05		Signature: MSH LT		Date/Time: Signature:		
Relinquished by (print):		Date/Time:		Signature:		Date/Time:		
Sample Disposal:		Return to Client:		Received by Laboratory: P. Lard		Date/Time: 10/28/09 10:08		
Lab Disposal:		Signature:		Date/Time:		Signature:		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										Analytical Run: MAN-TECH_091028A
Sample ID: ICV COND		Initial Calibration Verification Standard								10/28/09 17:23
Conductivity		729	umhos/cm	1.0	102	90	110			
Sample ID: CCV COND		Continuing Calibration Verification Standard								10/28/09 18:53
Conductivity		724	umhos/cm	1.0	101	90	110			
Method: A2510 B										Batch: R57724
Sample ID: LCS COND		Laboratory Control Sample								10/28/09 17:39
Conductivity		1440	umhos/cm	1.0	102	90	110			
Sample ID: H09100352-002ADUP		Sample Duplicate								10/28/09 20:04
Conductivity		798	umhos/cm	1.0				0.4	10	
Method: A4500-H B										Analytical Run: PH2_091029A
Sample ID: CCV1_091029A		Continuing Calibration Verification Standard								10/29/09 16:22
pH		10.1	s.u.	0.10	101	99	101			
Method: A4500-H B										Batch: 091029A-PH-W
Sample ID: LCS1_091029A		Laboratory Control Sample								10/29/09 16:07
pH		7.03	s.u.	0.10	100	99	101			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

GAO Summary Report

Client: MT 020
Project: New York

Project Date: 11/1/02
Report Date: 11/1/02

Project	Client	Project Name	Project Number	Project Status	Project Manager	Project Sponsor	Project Lead	Project Owner	Project Contact	Project Description	Project Objectives	Project Deliverables	Project Milestones	Project Risks	Project Issues	Project Comments
Project A	Client A	Project A Name	Project A Number	Project A Status	Project A Manager	Project A Sponsor	Project A Lead	Project A Owner	Project A Contact	Project A Description	Project A Objectives	Project A Deliverables	Project A Milestones	Project A Risks	Project A Issues	Project A Comments
Project B	Client B	Project B Name	Project B Number	Project B Status	Project B Manager	Project B Sponsor	Project B Lead	Project B Owner	Project B Contact	Project B Description	Project B Objectives	Project B Deliverables	Project B Milestones	Project B Risks	Project B Issues	Project B Comments
Project C	Client C	Project C Name	Project C Number	Project C Status	Project C Manager	Project C Sponsor	Project C Lead	Project C Owner	Project C Contact	Project C Description	Project C Objectives	Project C Deliverables	Project C Milestones	Project C Risks	Project C Issues	Project C Comments
Project D	Client D	Project D Name	Project D Number	Project D Status	Project D Manager	Project D Sponsor	Project D Lead	Project D Owner	Project D Contact	Project D Description	Project D Objectives	Project D Deliverables	Project D Milestones	Project D Risks	Project D Issues	Project D Comments
Project E	Client E	Project E Name	Project E Number	Project E Status	Project E Manager	Project E Sponsor	Project E Lead	Project E Owner	Project E Contact	Project E Description	Project E Objectives	Project E Deliverables	Project E Milestones	Project E Risks	Project E Issues	Project E Comments
Project F	Client F	Project F Name	Project F Number	Project F Status	Project F Manager	Project F Sponsor	Project F Lead	Project F Owner	Project F Contact	Project F Description	Project F Objectives	Project F Deliverables	Project F Milestones	Project F Risks	Project F Issues	Project F Comments
Project G	Client G	Project G Name	Project G Number	Project G Status	Project G Manager	Project G Sponsor	Project G Lead	Project G Owner	Project G Contact	Project G Description	Project G Objectives	Project G Deliverables	Project G Milestones	Project G Risks	Project G Issues	Project G Comments
Project H	Client H	Project H Name	Project H Number	Project H Status	Project H Manager	Project H Sponsor	Project H Lead	Project H Owner	Project H Contact	Project H Description	Project H Objectives	Project H Deliverables	Project H Milestones	Project H Risks	Project H Issues	Project H Comments
Project I	Client I	Project I Name	Project I Number	Project I Status	Project I Manager	Project I Sponsor	Project I Lead	Project I Owner	Project I Contact	Project I Description	Project I Objectives	Project I Deliverables	Project I Milestones	Project I Risks	Project I Issues	Project I Comments
Project J	Client J	Project J Name	Project J Number	Project J Status	Project J Manager	Project J Sponsor	Project J Lead	Project J Owner	Project J Contact	Project J Description	Project J Objectives	Project J Deliverables	Project J Milestones	Project J Risks	Project J Issues	Project J Comments



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: IC101-H_091029A										
Sample ID: ICV	2	Initial Calibration Verification Standard								10/29/09 18:30
Chloride		2.6	mg/L	1.0	103	90	110			
Sulfate		9.9	mg/L	1.0	99	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								10/30/09 02:59
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		50	mg/L	1.0	101	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								10/30/09 06:49
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		50	mg/L	1.0	101	90	110			
Method: E300.0										
Batch: R57789										
Sample ID: LCS	2	Laboratory Control Sample				Run: IC101-H_091029A			10/29/09 18:47	
Chloride		87	mg/L	1.0	99	90	110			
Sulfate		28	mg/L	1.0	97	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC101-H_091029A			10/29/09 19:03	
Chloride		4.9	mg/L	1.0	98	90	110			
Sulfate		9.9	mg/L	1.0	99	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC101-H_091029A			10/29/09 19:20	
Chloride		ND	mg/L	0.05						
Sulfate		ND	mg/L	0.1						
Sample ID: H09100352-001A MS	2	Sample Matrix Spike				Run: IC101-H_091029A			10/30/09 05:27	
Chloride		39	mg/L	1.0	102	90	110			
Sulfate		70	mg/L	1.0	103	90	110			
Sample ID: H09100352-001A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_091029A			10/30/09 05:44	
Chloride		40	mg/L	1.0	102	90	110	0.4	20	
Sulfate		70	mg/L	1.0	103	90	110	0.3	20	
Sample ID: H09100352-006A MS	2	Sample Matrix Spike				Run: IC101-H_091029A			10/30/09 07:55	
Chloride		25	mg/L	1.0	98	90	110			
Sulfate		52	mg/L	1.0	103	90	110			
Sample ID: H09100352-006A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_091029A			10/30/09 08:11	
Chloride		24	mg/L	1.0	96	90	110	1.8	20	
Sulfate		51	mg/L	1.0	102	90	110	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

GAO Summary Report

Agency	Topic	Issue	GAO Line Item	High Level	WFO Response	GAO Response
Section 1: 01/20/20						
Agency: 01/20/20	Topic: 01/20/20	1. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		2. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		3. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Agency: 01/20/20	Topic: 01/20/20	4. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		5. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		6. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Section 2: 01/20/20						
Agency: 01/20/20	Topic: 01/20/20	7. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		8. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		9. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Agency: 01/20/20	Topic: 01/20/20	10. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		11. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		12. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Section 3: 01/20/20						
Agency: 01/20/20	Topic: 01/20/20	13. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		14. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		15. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Agency: 01/20/20	Topic: 01/20/20	16. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		17. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		18. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Section 4: 01/20/20						
Agency: 01/20/20	Topic: 01/20/20	19. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		20. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		21. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Agency: 01/20/20	Topic: 01/20/20	22. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		23. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		24. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Section 5: 01/20/20						
Agency: 01/20/20	Topic: 01/20/20	25. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		26. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		27. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
Agency: 01/20/20	Topic: 01/20/20	28. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		29. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20
		30. 01/20/20	01/20/20	01/20/20	01/20/20	01/20/20



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod										
Sample ID: LCS-42473	Laboratory Control Sample									
Cyanide, Total		0.104	mg/L	0.0050	104	90	110			Batch: B_42473 11/04/09 14:21
Sample ID: MB-42473										
Cyanide, Total		ND	mg/L	0.002						Run: SUB-B138565 11/04/09 14:27
Sample ID: H09100352-004D										
Cyanide, Total		0.0879	mg/L	0.0050	88	90	110			Run: SUB-B138565 11/04/09 15:31 S
Sample ID: H09100352-004D										
Cyanide, Total		0.0883	mg/L	0.0050	88	90	110	0.5	10	Run: SUB-B138565 11/04/09 15:33 S
Method: Kelada mod										
Sample ID: ICV-1	Initial Calibration Verification Standard									
Cyanide, Total		0.142	mg/L	0.0050	95	90	110			Analytical Run: SUB-B138484 11/03/09 10:08
Method: Kelada mod										
Sample ID: LFB-2	Laboratory Fortified Blank									
Cyanide, Total		0.102	mg/L	0.0050	102	90	110			Batch: B_R138484 11/03/09 10:09
Sample ID: MBLK-3										
Cyanide, Total		ND	mg/L	0.002						Run: SUB-B138484 11/03/09 10:11
Sample ID: H09100352-004D										
Cyanide, Total		0.125	mg/L	0.0050	116	90	110			Run: SUB-B138484 11/03/09 15:07 S
Sample ID: H09100352-004D										
Cyanide, Total		0.119	mg/L	0.0050	110	90	110	5.1	10	Run: SUB-B138484 11/03/09 15:08
Method: Kelada mod										
Sample ID: ICV-1	Initial Calibration Verification Standard									
Cyanide, Total		0.149	mg/L	0.0050	99	90	110			Analytical Run: SUB-B138565 11/04/09 14:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 11/13/09

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E410.4										
Analytical Run: SPECTRO_091111A										
Sample ID: CCV	Continuing Calibration Verification Standard									
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	99	90	110			11/11/09 11:00
Method: E410.4										
Batch: R58079										
Sample ID: LCS	Laboratory Control Sample									
Oxygen Demand, Chemical (COD)		310	mg/L	4.7	103	90	110			11/11/09 11:00
Run: SPECTRO_091111A										
Sample ID: MBLK	Method Blank									
Oxygen Demand, Chemical (COD)		ND	mg/L	0.9						11/11/09 11:00
Run: SPECTRO_091111A										
Sample ID: H09100352-004BMS	Sample Matrix Spike									
Oxygen Demand, Chemical (COD)		51	mg/L	1.0	97	90	110			11/11/09 11:00
Run: SPECTRO_091111A										
Sample ID: H09100352-004BMSD	Sample Matrix Spike Duplicate									
Oxygen Demand, Chemical (COD)		52	mg/L	1.0	98	90	110	0.6		11/11/09 11:00
Run: SPECTRO_091111A										
Sample ID: H09110012-001DDUP	Sample Duplicate									
Oxygen Demand, Chemical (COD)		12	mg/L	1.0				2.5		11/11/09 11:00
Run: SPECTRO_091111A										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT 59601
 Project: 10th MT 59601
 Report Date: 10/10/2011
 Work Order: 10/10/2011

Analysis	Client	Test	Spec	Result	Unit	Notes
Sample 101	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 102	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 103	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 104	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 105	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 106	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 107	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 108	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 109	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample 110	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2							Analytical Run: NUTRIENTS_091029B			
Sample ID: ICV-1		Initial Calibration Verification Standard								10/29/09 15:12
Nitrogen, Nitrate+Nitrite as N		1.010	mg/L	0.050	101	90	110			
Sample ID: CCV-19		Continuing Calibration Verification Standard								10/29/09 15:48
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110			
Sample ID: CCV-30		Continuing Calibration Verification Standard								10/29/09 16:10
Nitrogen, Nitrate+Nitrite as N		0.5100	mg/L	0.050	102	90	110			
Method: E353.2							Batch: A2009-10-29_5_NO3_01			
Sample ID: LCS-2		Laboratory Control Sample				Run: NUTRIENTS_091029B		10/29/09 15:15		
Nitrogen, Nitrate+Nitrite as N		15.80	mg/L	0.095	104	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank				Run: NUTRIENTS_091029B		10/29/09 15:16		
Nitrogen, Nitrate+Nitrite as N		0.5300	mg/L	0.050	106	90	110			
Sample ID: MBLK-7		Method Blank				Run: NUTRIENTS_091029B		10/29/09 15:24		
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010						
Sample ID: H09100328-005DMS		Sample Matrix Spike				Run: NUTRIENTS_091029B		10/29/09 15:56		
Nitrogen, Nitrate+Nitrite as N		1.100	mg/L	0.050	110	90	110			
Sample ID: H09100328-005DMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_091029B		10/29/09 15:58		
Nitrogen, Nitrate+Nitrite as N		1.090	mg/L	0.050	109	90	110	0.9	20	
Sample ID: H09100360-001DMS		Sample Matrix Spike				Run: NUTRIENTS_091029B		10/29/09 16:24		
Nitrogen, Nitrate+Nitrite as N		1.030	mg/L	0.050	103	90	110			
Sample ID: H09100360-001DMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_091029B		10/29/09 16:26		
Nitrogen, Nitrate+Nitrite as N		1.070	mg/L	0.050	107	90	110	3.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Client: MT DEC
Project: Mount N. Lumber

QA/QC Summary Report

Report Date: 11/15/2019
Prepared By: [Name]

Analysis	Test Name	Test Date	Test Result	Test Location	Test Status
Analysis 1: [Name]	Test Name 1	11/15/2019	Pass	Location 1	Complete
Analysis 2: [Name]	Test Name 2	11/15/2019	Pass	Location 2	Complete
Analysis 3: [Name]	Test Name 3	11/15/2019	Pass	Location 3	Complete
Analysis 4: [Name]	Test Name 4	11/15/2019	Pass	Location 4	Complete
Analysis 5: [Name]	Test Name 5	11/15/2019	Pass	Location 5	Complete
Analysis 6: [Name]	Test Name 6	11/15/2019	Pass	Location 6	Complete
Analysis 7: [Name]	Test Name 7	11/15/2019	Pass	Location 7	Complete
Analysis 8: [Name]	Test Name 8	11/15/2019	Pass	Location 8	Complete
Analysis 9: [Name]	Test Name 9	11/15/2019	Pass	Location 9	Complete
Analysis 10: [Name]	Test Name 10	11/15/2019	Pass	Location 10	Complete
Analysis 11: [Name]	Test Name 11	11/15/2019	Pass	Location 11	Complete
Analysis 12: [Name]	Test Name 12	11/15/2019	Pass	Location 12	Complete
Analysis 13: [Name]	Test Name 13	11/15/2019	Pass	Location 13	Complete
Analysis 14: [Name]	Test Name 14	11/15/2019	Pass	Location 14	Complete
Analysis 15: [Name]	Test Name 15	11/15/2019	Pass	Location 15	Complete



QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 11/13/09

Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
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Method: E200.8

Analytical Run: ICPMS204-B_091102A

Sample ID: QCS-090602A,090609 **17** Initial Calibration Verification Standard

11/02/09 12:26

Antimony		0.0495	mg/L	0.050	99	90	110			
Arsenic		0.0504	mg/L	0.0050	101	90	110			
Barium		0.0499	mg/L	0.10	100	90	110			
Beryllium		0.0258	mg/L	0.0010	103	90	110			
Cadmium		0.0260	mg/L	0.0010	104	90	110			
Chromium		0.0500	mg/L	0.010	100	90	110			
Cobalt		0.0508	mg/L	0.010	102	90	110			
Copper		0.0513	mg/L	0.010	103	90	110			
Iron		0.255	mg/L	0.030	100	90	110			
Lead		0.0504	mg/L	0.010	101	90	110			
Mercury		0.00206	mg/L	0.0010	103	90	110			
Nickel		0.0505	mg/L	0.010	101	90	110			
Selenium		0.0511	mg/L	0.0050	102	90	110			
Silver		0.0250	mg/L	0.0050	100	90	110			
Thallium		0.0504	mg/L	0.10	101	90	110			
Vanadium		0.0495	mg/L	0.10	99	90	110			
Zinc		0.0519	mg/L	0.010	104	90	110			

Sample ID: ICSA-090423A

17 Interference Check Sample A

11/02/09 12:33

Antimony		0.00209	mg/L	0.050						
Arsenic		8.60E-05	mg/L	0.0050						
Barium		8.30E-05	mg/L	0.10						
Beryllium		6.00E-06	mg/L	0.0010						
Cadmium		0.000261	mg/L	0.0010						
Chromium		0.000671	mg/L	0.010						
Cobalt		0.000156	mg/L	0.010						
Copper		0.000383	mg/L	0.010						
Iron		107	mg/L	0.030	107	70	130			
Lead		0.000587	mg/L	0.010						
Mercury		4.10E-05	mg/L	0.0010						
Nickel		0.000642	mg/L	0.010						
Selenium		5.90E-05	mg/L	0.0050						
Silver		4.60E-05	mg/L	0.0050						
Thallium		8.50E-05	mg/L	0.10						
Vanadium		0.000143	mg/L	0.10						
Zinc		0.00206	mg/L	0.010						

Sample ID: ICSAB-090423A,09010 **17** Interference Check Sample AB

11/02/09 12:40

Antimony		0.00202	mg/L	0.050		0	0			
Arsenic		0.0111	mg/L	0.0050	111	70	130			
Barium		5.40E-05	mg/L	0.10		0	0			
Beryllium		4.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0106	mg/L	0.0010	106	70	130			
Chromium		0.0218	mg/L	0.010	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS204-B_091102A		
Sample ID: ICSAB-090423A,09010 17 Interference Check Sample AB 11/02/09 12:40										
Cobalt		0.0221	mg/L	0.010	111	70	130			
Copper		0.0215	mg/L	0.010	108	70	130			
Iron		105	mg/L	0.030	105	70	130			
Lead		0.000576	mg/L	0.010		0	0			
Mercury		2.80E-05	mg/L	0.0010		0	0			
Nickel		0.0217	mg/L	0.010	108	70	130			
Selenium		0.0104	mg/L	0.0050	104	70	130			
Silver		0.0213	mg/L	0.0050	106	70	130			
Thallium		-0.000101	mg/L	0.10		0	0			
Vanadium		0.0217	mg/L	0.10	108	70	130			
Zinc		0.0123	mg/L	0.010	123	70	130			
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard 11/02/09 16:18										
Antimony		0.0495	mg/L	0.050	99	90	110			
Arsenic		0.0493	mg/L	0.0050	99	90	110			
Barium		0.0488	mg/L	0.10	98	90	110			
Beryllium		0.0247	mg/L	0.0010	99	90	110			
Cadmium		0.0256	mg/L	0.0010	102	90	110			
Chromium		0.0505	mg/L	0.010	101	90	110			
Cobalt		0.0501	mg/L	0.010	100	90	110			
Copper		0.0505	mg/L	0.010	101	90	110			
Iron		0.254	mg/L	0.030	99	90	110			
Lead		0.0495	mg/L	0.010	99	90	110			
Mercury		0.00202	mg/L	0.0010	101	90	110			
Nickel		0.0503	mg/L	0.010	101	90	110			
Selenium		0.0492	mg/L	0.0050	98	90	110			
Silver		0.0248	mg/L	0.0050	99	90	110			
Thallium		0.0498	mg/L	0.10	100	90	110			
Vanadium		0.0493	mg/L	0.10	99	90	110			
Zinc		0.0509	mg/L	0.010	102	90	110			
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard 11/03/09 01:36										
Antimony		0.0504	mg/L	0.050	101	90	110			
Arsenic		0.0492	mg/L	0.0050	98	90	110			
Barium		0.0501	mg/L	0.10	100	90	110			
Beryllium		0.0246	mg/L	0.0010	99	90	110			
Cadmium		0.0261	mg/L	0.0010	104	90	110			
Chromium		0.0494	mg/L	0.010	99	90	110			
Cobalt		0.0503	mg/L	0.010	101	90	110			
Copper		0.0499	mg/L	0.010	100	90	110			
Iron		0.254	mg/L	0.030	99	90	110			
Lead		0.0499	mg/L	0.010	100	90	110			
Mercury		0.00202	mg/L	0.0010	101	90	110			
Nickel		0.0500	mg/L	0.010	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Sample ID: QCS-090602A,090609 17 Initial Calibration Verification Standard										
										Analytical Run: ICPMS204-B_091102A
Selenium		0.0493	mg/L	0.0050	99	90	110			11/03/09 01:36
Silver		0.0254	mg/L	0.0050	102	90	110			
Thallium		0.0502	mg/L	0.10	100	90	110			
Vanadium		0.0488	mg/L	0.10	98	90	110			
Zinc		0.0497	mg/L	0.010	99	90	110			
Sample ID: ICSA-090423A 17 Interference Check Sample A										
										11/03/09 01:43
Antimony		0.00219	mg/L	0.050						
Arsenic		8.30E-05	mg/L	0.0050						
Barium		-0.000459	mg/L	0.10						
Beryllium		1.30E-05	mg/L	0.0010						
Cadmium		0.000316	mg/L	0.0010						
Chromium		0.000944	mg/L	0.010						
Cobalt		1.50E-05	mg/L	0.010						
Copper		0.000278	mg/L	0.010						
Iron		111	mg/L	0.030	111	70	130			
Lead		0.000618	mg/L	0.010						
Mercury		3.60E-05	mg/L	0.0010						
Nickel		0.000707	mg/L	0.010						
Selenium		5.70E-05	mg/L	0.0050						
Silver		4.20E-05	mg/L	0.0050						
Thallium		9.10E-05	mg/L	0.10						
Vanadium		0.000165	mg/L	0.10						
Zinc		0.00194	mg/L	0.010						
Sample ID: ICSAB-090423A,09010 17 Interference Check Sample AB										
										11/03/09 01:49
Antimony		0.00208	mg/L	0.050		0	0			
Arsenic		0.0114	mg/L	0.0050	114	70	130			
Barium		-0.000464	mg/L	0.10		0	0			
Beryllium		8.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0112	mg/L	0.0010	112	70	130			
Chromium		0.0230	mg/L	0.010	115	70	130			
Cobalt		0.0229	mg/L	0.010	115	70	130			
Copper		0.0222	mg/L	0.010	111	70	130			
Iron		112	mg/L	0.030	112	70	130			
Lead		0.000593	mg/L	0.010		0	0			
Mercury		2.40E-05	mg/L	0.0010		0	0			
Nickel		0.0226	mg/L	0.010	113	70	130			
Selenium		0.0110	mg/L	0.0050	110	70	130			
Silver		0.0224	mg/L	0.0050	112	70	130			
Thallium		5.70E-05	mg/L	0.10		0	0			
Vanadium		0.0225	mg/L	0.10	113	70	130			
Zinc		0.0131	mg/L	0.010	131	70	130			S

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R57806
Sample ID: LFB										11/02/09 17:05
17 Laboratory Fortified Blank										Run: ICPMS204-B_091102A
Antimony		0.0503	mg/L	0.050	101	85	115			
Arsenic		0.0497	mg/L	0.0050	99	85	115			
Barium		0.0498	mg/L	0.10	99	85	115			
Beryllium		0.0479	mg/L	0.0010	96	85	115			
Cadmium		0.0494	mg/L	0.0010	99	85	115			
Chromium		0.0494	mg/L	0.010	99	85	115			
Cobalt		0.0485	mg/L	0.010	97	85	115			
Copper		0.0487	mg/L	0.010	98	85	115			
Iron		4.90	mg/L	0.030	98	85	115			
Lead		0.0502	mg/L	0.010	100	85	115			
Mercury		0.000976	mg/L	0.0010	97	85	115			
Nickel		0.0490	mg/L	0.010	98	85	115			
Selenium		0.0496	mg/L	0.0050	99	85	115			
Silver		0.0208	mg/L	0.0050	104	85	115			
Thallium		0.0499	mg/L	0.10	100	85	115			
Vanadium		0.0502	mg/L	0.10	100	85	115			
Zinc		0.0506	mg/L	0.010	99	85	115			
Sample ID: H09100358-001AMS										11/02/09 19:20
17 Sample Matrix Spike										Run: ICPMS204-B_091102A
Antimony		0.0509	mg/L	0.0050	101	70	130			
Arsenic		0.0664	mg/L	0.0050	103	70	130			
Barium		0.0909	mg/L	0.10	100	70	130			
Beryllium		0.0536	mg/L	0.0010	96	70	130			
Cadmium		0.0469	mg/L	0.0010	94	70	130			
Chromium		0.0500	mg/L	0.010	98	70	130			
Cobalt		0.0495	mg/L	0.010	96	70	130			
Copper		1.07	mg/L	0.010		70	130			A
Iron		4.84	mg/L	0.030	97	70	130			
Lead		0.0503	mg/L	0.010	99	70	130			
Mercury		0.00110	mg/L	0.0010	99	70	130			
Nickel		0.0492	mg/L	0.010	96	70	130			
Selenium		0.0723	mg/L	0.0050	110	70	130			
Silver		0.0146	mg/L	0.0050	73	70	130			
Thallium		0.0488	mg/L	0.0050	98	70	130			
Vanadium		0.0638	mg/L	0.10	101	70	130			
Zinc		0.0906	mg/L	0.010	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

Client: MT OGC
Project: Water M. Levee

Report Date: 11/12/09
Week Order: 10010002

QA/QC Summary Report

Analysis	Method	Lab	Conc	Result	Unit	QC Method	QC Result	QC Unit	QC Status	QC Date
Section 1: Water Quality										
Ammonia	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Boron	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Bromine	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Calcium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Chlorine	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Copper	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Iron	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Lead	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Manganese	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Nickel	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Selenium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Silver	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Sulfate	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Vanadium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Zinc	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Section 2: Sediment Quality										
Ammonia	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Boron	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Bromine	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Calcium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Chlorine	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Copper	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Iron	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Lead	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Manganese	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Nickel	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Selenium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Silver	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Sulfate	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Vanadium	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09
Zinc	100.0	100.0	100.0	100.0	mg/L	100.0	100.0	100.0	Pass	11/12/09



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: 1SATURN_091106A
Sample ID: CCV110609A										11/06/09 09:57
53 Continuing Calibration Verification Standard										
Acetone		41.6	ug/L	20	83	70	130			
Acrylonitrile		45.6	ug/L	20	91	70	130			
Benzene		4.52	ug/L	1.0	90	70	130			
Bromochloromethane		4.32	ug/L	1.0	86	70	130			
Bromodichloromethane		4.52	ug/L	1.0	90	70	130			
Bromoform		4.80	ug/L	1.0	96	70	130			
Bromomethane		4.92	ug/L	1.0	98	70	130			
Carbon disulfide		5.00	ug/L	1.0	100	70	130			
Carbon tetrachloride		4.56	ug/L	1.0	91	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		4.92	ug/L	1.0	98	70	130			
Chloroethane		3.53	ug/L	1.0	71	70	130			
Chloroform		4.40	ug/L	1.0	88	80	120			
Chloromethane		3.54	ug/L	1.0	71	70	130			
1,2-Dibromo-3-chloropropane		4.60	ug/L	1.0	92	70	130			
1,2-Dibromoethane		4.56	ug/L	1.0	91	70	130			
Dibromomethane		4.40	ug/L	1.0	88	70	130			
1,2-Dichlorobenzene		4.80	ug/L	1.0	96	70	130			
1,4-Dichlorobenzene		5.24	ug/L	1.0	105	70	130			
Dichlorodifluoromethane		5.12	ug/L	1.0	102	70	130			
1,1-Dichloroethane		4.72	ug/L	1.0	94	70	130			
1,2-Dichloroethane		3.92	ug/L	1.0	78	70	130			
1,1-Dichloroethene		4.68	ug/L	1.0	94	80	120			
cis-1,2-Dichloroethene		4.44	ug/L	1.0	89	70	130			
trans-1,2-Dichloroethene		4.64	ug/L	1.0	93	70	130			
1,2-Dichloropropane		4.68	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		4.40	ug/L	1.0	88	70	130			
trans-1,3-Dichloropropene		4.80	ug/L	1.0	96	70	130			
Ethylbenzene		5.08	ug/L	1.0	102	80	120			
2-Hexanone		45.6	ug/L	20	91	70	130			
Iodomethane		4.72	ug/L	1.0	94	70	130			
Methyl ethyl ketone		37.4	ug/L	20	75	70	130			
Methyl isobutyl ketone		46.4	ug/L	20	93	70	130			
Methylene chloride		4.24	ug/L	1.0	85	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		4.76	ug/L	1.0	95	70	130			
1,1,2,2-Tetrachloroethane		4.60	ug/L	1.0	92	70	130			
Tetrachloroethene		4.56	ug/L	1.0	91	70	130			
Toluene		4.92	ug/L	1.0	98	80	120			
1,1,1-Trichloroethane		4.56	ug/L	1.0	91	70	130			
1,1,2-Trichloroethane		5.08	ug/L	1.0	102	70	130			
Trichloroethene		4.68	ug/L	1.0	94	70	130			
Trichlorofluoromethane		5.08	ug/L	1.0	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: CCV110609A										
53 Continuing Calibration Verification Standard										
Analytical Run: 1SATURN_091106A										
11/06/09 09:57										
1,2,3-Trichloropropane		4.88	ug/L	1.0	98	70	130			
Vinyl acetate		4.32	ug/L	1.0	86	70	130			
Vinyl chloride		4.88	ug/L	1.0	98	80	120			
m+p-Xylenes		9.80	ug/L	1.0	98	70	130			
o-Xylene		4.84	ug/L	1.0	97	70	130			
Xylenes, Total		14.6	ug/L	1.0	98	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	83	70	130			
Surr: Dibromofluoromethane				1.0	95	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	107	70	130			
Method: SW8260B										
Sample ID: LCS110609B										
53 Laboratory Control Sample										
Run: 1SATURN_091106A										
Batch: R57995										
11/06/09 11:18										
Acetone		40.4	ug/L	20	81	70	130			
Acrylonitrile		44.8	ug/L	20	90	70	130			
Benzene		3.58	ug/L	1.0	72	70	130			
Bromochloromethane		4.64	ug/L	1.0	93	70	130			
Bromodichloromethane		4.64	ug/L	1.0	93	70	130			
Bromoform		5.08	ug/L	1.0	102	70	130			
Bromomethane		6.08	ug/L	1.0	122	70	130			
Carbon disulfide		4.92	ug/L	1.0	98	70	130			
Carbon tetrachloride		4.40	ug/L	1.0	88	70	130			
Chlorobenzene		5.20	ug/L	1.0	104	70	130			
Chlorodibromomethane		4.96	ug/L	1.0	99	70	130			
Chloroethane		4.72	ug/L	1.0	94	70	130			
Chloroform		4.52	ug/L	1.0	90	70	130			
Chloromethane		3.64	ug/L	1.0	73	70	130			
1,2-Dibromo-3-chloropropane		4.80	ug/L	1.0	96	70	130			
1,2-Dibromoethane		4.60	ug/L	1.0	92	70	130			
Dibromomethane		5.08	ug/L	1.0	102	70	130			
1,2-Dichlorobenzene		5.24	ug/L	1.0	105	70	130			
1,4-Dichlorobenzene		5.32	ug/L	1.0	106	70	130			
Dichlorodifluoromethane		4.68	ug/L	1.0	94	70	130			
1,1-Dichloroethane		4.48	ug/L	1.0	90	70	130			
1,2-Dichloroethane		4.24	ug/L	1.0	85	70	130			
1,1-Dichloroethene		3.53	ug/L	1.0	71	70	130			
cis-1,2-Dichloroethene		4.72	ug/L	1.0	94	70	130			
trans-1,2-Dichloroethene		3.78	ug/L	1.0	76	70	130			
1,2-Dichloropropane		4.76	ug/L	1.0	95	70	130			
cis-1,3-Dichloropropene		4.88	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		5.32	ug/L	1.0	106	70	130			
Ethylbenzene		5.32	ug/L	1.0	106	70	130			
2-Hexanone		45.6	ug/L	20	91	70	130			
Iodomethane		4.88	ug/L	1.0	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: LCS110609B	53	Laboratory Control Sample				Run: 1SATURN_091106A			Batch: R57995	
									11/06/09 11:18	
Methyl ethyl ketone		40.8	ug/L	20	82	70	130			
Methyl isobutyl ketone		44.4	ug/L	20	89	70	130			
Methylene chloride		3.96	ug/L	1.0	79	70	130			
Styrene		5.00	ug/L	1.0	100	70	130			
1,1,1,2-Tetrachloroethane		5.00	ug/L	1.0	100	70	130			
1,1,2,2-Tetrachloroethane		4.80	ug/L	1.0	96	70	130			
Tetrachloroethene		5.04	ug/L	1.0	101	70	130			
Toluene		4.96	ug/L	1.0	99	70	130			
1,1,1-Trichloroethane		4.60	ug/L	1.0	92	70	130			
1,1,2-Trichloroethane		5.20	ug/L	1.0	104	70	130			
Trichloroethene		4.76	ug/L	1.0	95	70	130			
Trichlorofluoromethane		5.24	ug/L	1.0	105	70	130			
1,2,3-Trichloropropane		3.97	ug/L	1.0	79	70	130			
Vinyl acetate		4.40	ug/L	1.0	88	70	130			
Vinyl chloride		5.00	ug/L	1.0	100	70	130			
m+p-Xylenes		10.1	ug/L	1.0	101	70	130			
o-Xylene		5.04	ug/L	1.0	101	70	130			
Xylenes, Total		15.2	ug/L	1.0	101	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	84	70	130			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	104	70	130			
Sample ID: MB110609A	53	Method Blank				Run: 1SATURN_091106A			11/06/09 12:34	
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R57995
Sample ID: MB110609A	53	Method Blank						Run: 1SATURN_091106A		11/06/09 12:34
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	82	70	130			
Surr: Dibromofluoromethane				1.0	99	70	130			
Surr: p-Bromofluorobenzene				1.0	99	70	130			
Surr: Toluene-d8				1.0	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 11/13/09
Work Order: H09100352

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_091109A		
Sample ID: CCV110909A	6	Continuing Calibration Verification Standard							11/09/09 11:12	
Acrylonitrile		47.2	ug/L	20	94	70	130			
cis-1,2-Dichloroethene		4.88	ug/L	1.0	98	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Surr: Toluene-d8				1.0	102	70	130			
Method: SW8260B								Batch: R58042		
Sample ID: LCS110909A	6	Laboratory Control Sample				Run: 1SATURN_091109A		11/09/09 11:59		
Acrylonitrile		39.8	ug/L	20	80	70	130			
cis-1,2-Dichloroethene		4.48	ug/L	1.0	90	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	83	70	130			
Surr: Dibromofluoromethane				1.0	97	70	130			
Surr: p-Bromofluorobenzene				1.0	96	70	130			
Surr: Toluene-d8				1.0	99	70	130			
Sample ID: MB110909A	6	Method Blank				Run: 1SATURN_091109A		11/09/09 14:10		
Acrylonitrile		ND	ug/L	20						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	104	70	130			
Surr: p-Bromofluorobenzene				1.0	100	70	130			
Surr: Toluene-d8				1.0	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

OACC Summary Report

Report Date: 12/20/2011
 Report Time: 10:15 AM

Report File: OACC_Summary_Report_12/20/2011_1015AM.rpt

Category	Count	Percentage	Count	Percentage	Count	Percentage
1. Overall Summary						
Total Cases	100	100%	100	100%	100	100%
Open Cases	45	45%	45	45%	45	45%
Closed Cases	55	55%	55	55%	55	55%
2. Case Status Distribution						
Open - In Progress	30	30%	30	30%	30	30%
Open - Pending	15	15%	15	15%	15	15%
Closed - Completed	40	40%	40	40%	40	40%
Closed - On Hold	15	15%	15	15%	15	15%
3. Case Type Distribution						
Administrative	20	20%	20	20%	20	20%
Financial	15	15%	15	15%	15	15%
Legal	10	10%	10	10%	10	10%
Medical	10	10%	10	10%	10	10%
Other	5	5%	5	5%	5	5%
4. Case Age Distribution						
0-30 Days	35	35%	35	35%	35	35%
31-60 Days	20	20%	20	20%	20	20%
61-90 Days	10	10%	10	10%	10	10%
91-120 Days	5	5%	5	5%	5	5%
121+ Days	5	5%	5	5%	5	5%



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energyglab.com *

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-006
Client Sample ID: MrM-MW-FB

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	5.7	s.u.		0.1		A4500-H B	10/29/09 16:26 / hm
Conductivity	ND	umhos/cm		1		A2510 B	10/28/09 20:19 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	11/03/09 15:14 / eli-b
Chloride	ND	mg/L		1		E300.0	10/30/09 07:39 / hm
Sulfate	ND	mg/L		1		E300.0	10/30/09 07:39 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	11/11/09 11:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	10/29/09 16:18 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	11/02/09 19:06 / dck
Arsenic	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Barium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Beryllium	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Cadmium	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Chromium	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Cobalt	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Copper	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Iron	0.05	mg/L		0.03		E200.8	11/02/09 19:06 / dck
Lead	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Mercury	ND	mg/L		0.001		E200.8	11/02/09 19:06 / dck
Nickel	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
Selenium	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Silver	ND	mg/L		0.005		E200.8	11/02/09 19:06 / dck
Thallium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Vanadium	ND	mg/L		0.1		E200.8	11/02/09 19:06 / dck
Zinc	ND	mg/L		0.01		E200.8	11/02/09 19:06 / dck
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/09/09 16:12 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-006
Client Sample ID: MrM-MW-FB

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
Date Received: 10/28/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 18:17 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 18:17 / abb
Surr: 1,2-Dichloroethane-d4	91.0	%REC		70-130		SW8260B	11/06/09 18:17 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

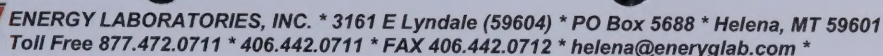
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: MT 080
 Project: M-100 H-1000
 Lab ID: 1000000000
 Cost: \$1000.00
 Report Date: 11/10/00
 Report Time: 10:00 AM
 Report By: J. Smith

VEGETABLE ORGANIC COMPOUNDS

Compound	Peak Area	Retention Time	Concentration	Notes
1,2-Dichloroethane	100	1.00	1.00	
1,1,1-Trichloroethane	100	1.00	1.00	
1,1,2-Trichloroethane	100	1.00	1.00	
1,2-Dichlorobenzene	100	1.00	1.00	
1,2,3-Trichlorobenzene	100	1.00	1.00	
1,2,4-Trichlorobenzene	100	1.00	1.00	
1,2,5-Trichlorobenzene	100	1.00	1.00	
1,2,6-Trichlorobenzene	100	1.00	1.00	
1,2,7-Trichlorobenzene	100	1.00	1.00	
1,2,8-Trichlorobenzene	100	1.00	1.00	
1,2,9-Trichlorobenzene	100	1.00	1.00	
1,2,10-Trichlorobenzene	100	1.00	1.00	
1,2,11-Trichlorobenzene	100	1.00	1.00	
1,2,12-Trichlorobenzene	100	1.00	1.00	
1,2,13-Trichlorobenzene	100	1.00	1.00	
1,2,14-Trichlorobenzene	100	1.00	1.00	
1,2,15-Trichlorobenzene	100	1.00	1.00	
1,2,16-Trichlorobenzene	100	1.00	1.00	
1,2,17-Trichlorobenzene	100	1.00	1.00	
1,2,18-Trichlorobenzene	100	1.00	1.00	
1,2,19-Trichlorobenzene	100	1.00	1.00	
1,2,20-Trichlorobenzene	100	1.00	1.00	
1,2,21-Trichlorobenzene	100	1.00	1.00	
1,2,22-Trichlorobenzene	100	1.00	1.00	
1,2,23-Trichlorobenzene	100	1.00	1.00	
1,2,24-Trichlorobenzene	100	1.00	1.00	
1,2,25-Trichlorobenzene	100	1.00	1.00	
1,2,26-Trichlorobenzene	100	1.00	1.00	
1,2,27-Trichlorobenzene	100	1.00	1.00	
1,2,28-Trichlorobenzene	100	1.00	1.00	
1,2,29-Trichlorobenzene	100	1.00	1.00	
1,2,30-Trichlorobenzene	100	1.00	1.00	
1,2,31-Trichlorobenzene	100	1.00	1.00	
1,2,32-Trichlorobenzene	100	1.00	1.00	
1,2,33-Trichlorobenzene	100	1.00	1.00	
1,2,34-Trichlorobenzene	100	1.00	1.00	
1,2,35-Trichlorobenzene	100	1.00	1.00	
1,2,36-Trichlorobenzene	100	1.00	1.00	
1,2,37-Trichlorobenzene	100	1.00	1.00	
1,2,38-Trichlorobenzene	100	1.00	1.00	
1,2,39-Trichlorobenzene	100	1.00	1.00	
1,2,40-Trichlorobenzene	100	1.00	1.00	
1,2,41-Trichlorobenzene	100	1.00	1.00	
1,2,42-Trichlorobenzene	100	1.00	1.00	
1,2,43-Trichlorobenzene	100	1.00	1.00	
1,2,44-Trichlorobenzene	100	1.00	1.00	
1,2,45-Trichlorobenzene	100	1.00	1.00	
1,2,46-Trichlorobenzene	100	1.00	1.00	
1,2,47-Trichlorobenzene	100	1.00	1.00	
1,2,48-Trichlorobenzene	100	1.00	1.00	
1,2,49-Trichlorobenzene	100	1.00	1.00	
1,2,50-Trichlorobenzene	100	1.00	1.00	
1,2,51-Trichlorobenzene	100	1.00	1.00	
1,2,52-Trichlorobenzene	100	1.00	1.00	
1,2,53-Trichlorobenzene	100	1.00	1.00	
1,2,54-Trichlorobenzene	100	1.00	1.00	
1,2,55-Trichlorobenzene	100	1.00	1.00	
1,2,56-Trichlorobenzene	100	1.00	1.00	
1,2,57-Trichlorobenzene	100	1.00	1.00	
1,2,58-Trichlorobenzene	100	1.00	1.00	
1,2,59-Trichlorobenzene	100	1.00	1.00	
1,2,60-Trichlorobenzene	100	1.00	1.00	
1,2,61-Trichlorobenzene	100	1.00	1.00	
1,2,62-Trichlorobenzene	100	1.00	1.00	
1,2,63-Trichlorobenzene	100	1.00	1.00	
1,2,64-Trichlorobenzene	100	1.00	1.00	
1,2,65-Trichlorobenzene	100	1.00	1.00	
1,2,66-Trichlorobenzene	100	1.00	1.00	
1,2,67-Trichlorobenzene	100	1.00	1.00	
1,2,68-Trichlorobenzene	100	1.00	1.00	
1,2,69-Trichlorobenzene	100	1.00	1.00	
1,2,70-Trichlorobenzene	100	1.00	1.00	
1,2,71-Trichlorobenzene	100	1.00	1.00	
1,2,72-Trichlorobenzene	100	1.00	1.00	
1,2,73-Trichlorobenzene	100	1.00	1.00	
1,2,74-Trichlorobenzene	100	1.00	1.00	
1,2,75-Trichlorobenzene	100	1.00	1.00	
1,2,76-Trichlorobenzene	100	1.00	1.00	
1,2,77-Trichlorobenzene	100	1.00	1.00	
1,2,78-Trichlorobenzene	100	1.00	1.00	
1,2,79-Trichlorobenzene	100	1.00	1.00	
1,2,80-Trichlorobenzene	100	1.00	1.00	
1,2,81-Trichlorobenzene	100	1.00	1.00	
1,2,82-Trichlorobenzene	100	1.00	1.00	
1,2,83-Trichlorobenzene	100	1.00	1.00	
1,2,84-Trichlorobenzene	100	1.00	1.00	
1,2,85-Trichlorobenzene	100	1.00	1.00	
1,2,86-Trichlorobenzene	100	1.00	1.00	
1,2,87-Trichlorobenzene	100	1.00	1.00	
1,2,88-Trichlorobenzene	100	1.00	1.00	
1,2,89-Trichlorobenzene	100	1.00	1.00	
1,2,90-Trichlorobenzene	100	1.00	1.00	
1,2,91-Trichlorobenzene	100	1.00	1.00	
1,2,92-Trichlorobenzene	100	1.00	1.00	
1,2,93-Trichlorobenzene	100	1.00	1.00	
1,2,94-Trichlorobenzene	100	1.00	1.00	
1,2,95-Trichlorobenzene	100	1.00	1.00	
1,2,96-Trichlorobenzene	100	1.00	1.00	
1,2,97-Trichlorobenzene	100	1.00	1.00	
1,2,98-Trichlorobenzene	100	1.00	1.00	
1,2,99-Trichlorobenzene	100	1.00	1.00	
1,2,100-Trichlorobenzene	100	1.00	1.00	



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-006
Client Sample ID: MrM-MW-FB

Report Date: 11/13/09
Collection Date: 10/27/09 09:40
DateReceived: 10/28/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

THEORY LABORATORY, INC. 101 E. 10th Street, Suite 100, Minneapolis, MN 55401
 Tel: 612-338-1111 Fax: 612-338-1112 www.theorylab.com

LABORATORY ANALYTICAL REPORT

Client: MTD	Report Date: 01/15/00
Project: Water Analysis	Collection Date: 01/12/00
Lab No: 0100000000	Distribution: 01/15/00
Client Sample ID: 0100000000	Water Agency:

Analysis	Result	Unit	Method	MSL	MSL	MSL
VOLATILE ORGANIC COMPOUNDS						
1,1-Dichloroethene	0.05	mg/L	SW-846	0.05	0.05	0.05
1,2-Dichloroethene	0.05	mg/L	SW-846	0.05	0.05	0.05
1,1,1-Trichloroethene	0.05	mg/L	SW-846	0.05	0.05	0.05



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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09100352-007
Client Sample ID: SLD LOT# SHP0240

Report Date: 11/13/09
Collection Date: 10/26/09 13:30
Date Received: 10/28/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Benzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromoform	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloroform	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
2-Hexanone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	11/06/09 14:13 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Styrene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Toluene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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Date Received: 10/28/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	11/06/09 14:13 / abb
Surr: 1,2-Dichloroethane-d4	79.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: Dibromofluoromethane	95.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: p-Bromofluorobenzene	98.0	%REC		70-130		SW8260B	11/06/09 14:13 / abb
Surr: Toluene-d8	107	%REC		70-130		SW8260B	11/06/09 14:13 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Closed

County Fergus

Facility & # Myster M #302

Closure Landfarm

Finan Assur Liner

GW Corr Meas Methane

GW Monitoring O & M

GW Reports Run-on

Inspections

Other: _____

CLOSED MISTER M LANDFILL, LICENSE #302
LEWISTOWN, FERGUS COUNTY, MONTANA
JUNE 2009 GROUNDWATER AND METHANE
MONITORING RESULTS AND STATISTICAL ANALYSES

Prepared By:

Montana Department of Environmental Quality

Solid Waste Section

August 6, 2009

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1.0 INTRODUCTION

Groundwater and methane monitoring at the closed Mister M Landfill, License #302, was conducted in June 2009 by the Montana Department of Environmental Quality (MDEQ), Solid Waste Section, according to the May 2009 Sampling and Analysis Plan for Methane and Groundwater (SAP) (MDEQ, 2009[2]). Mister M Landfill is located in Fergus County, Montana, approximately four miles east of Lewistown on US Highway 87, as shown in Figure 1. As shown in Figure 2, the landfill lies in a small south facing coulee which drains to Boyd Creek. The facility received Class II wastes from 1956 to 1998, and was granted interim closure status on December 5, 2000. The current owners, Marvin and Sandra Mintyala, operated the facility from 1974 until approximately 2000, when the site was abandoned.

According to the Geohydrologic Characterization (Gillespie, 1993 revised; and Gillespie, 1994) the landfill is underlain by the Kootenai Formation, which consists of predominately shale with some silty sandstone. A basal unit of sandstone in the Kootenai formation is the uppermost aquifer in the area. Minor amounts of water have been encountered in the upper portions of the Kootenai Formation but most of the monitoring wells completed at the site have frequently been dry or contained minimal volumes of water.

Previous groundwater sampling at the facility was conducted by the owners or their consultants from 1993-1999 (Gillespie, 1995 and 1996; Energy Laboratories, 1997, 1998 (1), and 1998 (2); and Portage Environmental, 1999 and 2000). From 2003-2007 Tetra Tech, Inc was authorized by the MDEQ to conduct groundwater and methane monitoring in the absence of action by the owners (Energy Laboratories, 2003, 2004, 2005, 2006, and 2007; Maxim, 2005; Tetra Tech, 2006 and 2008). MDEQ Solid Waste Section personnel have conducted groundwater and methane monitoring from January 2009 to the present (MDEQ, 2009[1]).

2.0 FIELD PROCEDURES

MDEQ Solid Waste Section personnel conducted all field activities on June 1 through 3, including monitoring well inspections, methane monitoring, static water level (SWL) measurements, and groundwater sample collection as part of the detection monitoring program currently in effect for the facility. The locations of the monitoring points and the activities that were performed at each point are shown in Figure 3. All field activities described in this report were conducted in accordance with the approved May 2009 SAP, and any deviations from the SAP are described herein as required by ARM 17.50.108(15). The analysis of groundwater samples was conducted by Energy Laboratories Inc, in Helena, Montana.

2.1 WELL INSPECTIONS

All currently monitored wells were inspected on June 1 as required in ARM 17.50.724(2). New sealing caps for the inner casings of the groundwater monitoring wells were installed during the April 2009 methane monitoring event. Sealing caps with a methane monitoring port were installed on the inner casings of all current methane monitoring wells during this event. The Office Well (MW-OW) does not have an external casing. The House Well (MW-HW) was located approximately 120ft east of the house. The house well has a typical domestic water supply well completion and appears in good condition. One of the frost-free spigots behind the house is operational.

2.2 METHANE MONITORING

Methane monitoring was conducted on June 1 at wells MW-1, MW-2, MW-5M, MW-6M, and the north and south vents of the passive methane trench using a GFG model G450 portable gas meter. The gas meter was calibrated to the reference standard prior to monitoring. At the wells, monitoring was conducted by attaching the gas meter input tubing directly to the port on the cap. At the methane vents, monitoring was conducted by inserting the gas meter input tubing as far as possible into the vent. At all locations the highest reading during a two to three minute purge was recorded. Methane monitoring was not conducted in the office due to lack of access.

2.3 WATER LEVEL MEASUREMENTS

Static water levels were measured on June 1, 2009 in wells MW-5, MW-9R, MW-10R, and MW-OW using a Solinst electric water level meter. The total depths of wells MW-5, MW-9R, MW-10R and MW-OW were also recorded.

2.4 GROUNDWATER SAMPLING

Groundwater samples were collected June 1 through 3, 2009 from wells MW-5, MW-9R, MW-10R, MW-HW, and MW-OW. A field duplicate was collected from well MW-OW. No equipment blank was collected because all wells were sampled with disposable bailers. At each well that was sampled, samples were collected for all of the parameters listed in ARM 17.50.708 Table 1 plus Dichlorodifluoromethane.

The wells were purged and sampled following the procedures in the SAP with the deviations described below. All of the wells were purged and sampled using disposable bailers except well MW-HW. Well MW-HW was purged and sampled using the installed pump and the frost-free spigot nearest to the back of the house. Field water quality measurements were made using a Horiba model U-10 water quality meter, which was calibrated to the auto-cal solution prior to use on June 1, 2009. An error was reported during calibration of the dissolved oxygen (DO) sensor and could not be resolved, thus no DO measurements were taken. Oxidation-reduction potential (ORP) measurements were not taken because the field meter did not have an ORP sensor. Well MW-9R was purged dry in the morning of June 2, 2009 and allowed to recover for approximately three hours before sampling. Well MW-5 was purged dry in the afternoon of June 2, 2009 and allowed to recover overnight prior to sampling on the morning of June 3, 2009.

After collection, the samples were labeled as described in the SAP and were stored in a laboratory supplied cooler on ice. The samples were stored according to chain-of-custody requirements and hand delivered to Energy Laboratories Inc in Helena, Montana on June 5, 2009.

3.0 MONITORING RESULTS

3.1 METHANE MONITORING RESULTS

No methane was detected in any of the methane monitoring wells or the south methane vent. Methane was detected in the north methane vent at 1.0 percent LEL, down from the 22.5 percent LEL measured in April 2009. Oxygen levels were at ambient atmospheric levels except in well MW-1 and the north methane vent. No carbon monoxide or hydrogen sulfide was detected at any location. A copy of the completed Methane Monitoring Form is included in Appendix A.

3.2 GROUNDWATER LEVELS AND FLOW

The groundwater levels measured during this sampling event were higher than those measured in January 2009. Table 1 contains the measured total depth, depth to water, and static water levels for June 1, 2009. Figure 4 displays the June 1, 2009 water levels on a map. No attempt was made to contour the static water levels as the shallow wells are completed in minor water bearing zones of unknown horizontal extent and connectivity, and only one water level measurement was made in the deep water bearing zone. Groundwater flow in the shallow water bearing zones likely follows local topography and flows in a south to southwest direction. Groundwater flow in the deep water bearing zone is assumed to be to the southwest based on records from domestic wells in the area. A copy of the completed Water Level Measurement Form is included in Appendix A. Tables containing historic water levels and hydrographs for both the shallow and deep water bearing zones are included in Appendix B.

3.3 DATA VALIDATION

Upon receipt from the laboratory, the analytical results were validated as described in the SAP to ensure that the data quality objectives had been met. The samples were received by the laboratory at a temperature of 2.2°C. The pH of all samples was within acceptable limits. All samples were analyzed within the required holding times. The relative percent difference for all field and laboratory duplicates were all within control limits. Five out of the eight matrix spike analyses for cyanide were outside of control limits, indicating that cyanide may be biased low.

None of the matrix spike analyses were performed on Mister M samples, and the laboratory fortified blank and initial calibration verification standard were within control limits thus no data was qualified. All laboratory blanks were acceptable. Chloroform was detected in the Trip Blank with a value of 0.34J ug/L. Chloroform is a common laboratory contaminant, however no chloroform was detected in any field sample thus no results were flagged. A copy of the laboratory QA/QC report is included in Appendix C.

3.4 GROUNDWATER ANALYTICAL RESULTS

The following sections discuss the analytical results grouped by analyte type. A copy of the laboratory analytical report is included in Appendix D. Historical concentration plots for all parameters detected during this sampling event and a table containing historical analytical results are included in Appendix E.

3.4.1 Indicator Parameters

Groundwater at the facility has a neutral to slightly alkaline pH, with values from 7.5 to 7.7 reported for this event. Specific conductance ranged from 649 in the duplicate sample from MW-OW to 1020 in MW-5 and MW-10R. Sulfate remained unusually low (non-detect) and chloride high (51 mg/L) in MW-OW and its duplicate, but were similar to previous events in all other wells. Nitrate + Nitrite was not detected in MW-OW and detected at a very low level (0.17 mg/L) in MW-HW. Nitrate + Nitrite was detected at values of 1.42 mg/L in MW-10R, 2.12 mg/L in MW-9R, and 3.47 mg/L in MW-5, well below the maximum contaminant level (MCL) of 10 mg/L and similar to previous values. Chemical oxygen demand is low in all wells with a maximum of 9 mg/L reported at MW-OW.

3.4.2 Dissolved Metals

Four metals were detected in facility wells during this sampling event. Barium was detected in MW-5 and MW-9R at 0.1 mg/L, which is normal for the facility. Iron was detected in MW-OW and its duplicate at 0.47 mg/L, which is normal for that well. This concentration is greater than the secondary MCL for iron of 0.3 mg/L. Selenium was detected in MW-10R at 0.011 mg/L, which is lower than normal for that well, and in the MW-HW at 0.005 mg/L, where occasional

low level Selenium detections have occurred in the past. Selenium has been regularly detected in MW-5, including at a concentration of 0.111 mg/L during this event, indicating that these are natural conditions for the facility. Zinc was detected in MW-HW at 0.02 mg/L and in MW-OW and its duplicate at 0.48 mg/L. The zinc detection in MW-HW is typical for the deeper wells. The zinc concentration in MW-OW has decreased significantly from December 2007, but remains slightly elevated above historical values for that well.

3.4.3 Volatile Organic Compounds

Six VOCs were detected in MW-OW and its duplicate during this sampling event (concentrations in ug/L): Benzene (0.61 J, 0.67 J), Ethyl benzene (0.39 J, 0.30 J), Styrene (0.61 J, 0.55 J), cis-1,2-Dichloroethene (18, 18), Trichloroethene (0.16 J, 0.16 J), and Vinyl chloride (0.48 J, 0.46 J). The concentrations of all VOCs decreased from January 2009. The number of compounds detected also decreased from seven to six. Vinyl chloride remains above the Montana Human Health Standard for groundwater of 0.2 ug/L but below the MCL of 2 ug/L. Three VOCs were detected in MW-9R: cis-1,2-Dichloroethene (7.8), Tetrachloroethene (1.2), and Trichloroethene (0.42 J). cis-1,2-Dichloroethene and Tetrachloroethene were detected in the two previous samples collected from this well, but the current concentrations are the highest on record. VOCs were not detected in any other facility wells during this monitoring event.

4.0 STATISTICAL ANALYSIS

4.1 STATISTICAL METHODS

The statistical analyses were performed using the groundwater statistical software package Sanitas version 8.6. The analyses were conducted separately for the shallow wells (MW-5, MW-9R and MW-10R) and deep wells (MW-HW and MW-OW). The validated analytical data was first screened to determine which parameters required statistical analysis. Only parameters which were detected in one or more compliance wells (MW-9R, MW-10R, and MW-OW) and had been historically detected at least once in the appropriate background well (MW-5 or MW-HW) were analyzed. To increase the size of the background dataset for the shallow wells, the historical analytical results from cross gradient wells MW-6 and MW-6M were added to the MW-5 data. If a parameter was detected in a compliance well, but was always non-detected in the background dataset, the background value was set as the detection limit and any detection of that parameter was considered a statistical exceedance of background. As a result of the screening described above, the parameters selected for statistical analysis were: pH (shallow and deep), SC (shallow and deep), Chloride (shallow and deep), Sulfate (shallow), COD (shallow and deep), Nitrate + Nitrite (shallow), Barium (shallow), Iron (deep), Selenium (shallow), and Zinc (deep).

For the deep wells an intra-well prediction interval analysis was used to determine if the current analytical results from well MW-HW were consistent with historical results, and appropriate to use as the background dataset for MW-OW. Each selected parameter was then compared to the appropriate background dataset using an inter-well prediction interval analysis. The Sanitas software determines the distribution of the background dataset and performs the appropriate statistical test for that distribution. If the prediction interval analysis indicated an exceedance of background levels, a Sen's Slope/Mann Kendall test was conducted to analyze any trends in the data. All of the statistical tests were performed at a 95% confidence level, or the maximum confidence level that was possible given the size of the background dataset if a 95% confidence level was not possible.

4.2 ANALYSIS RESULTS

Table 2 contains a summary of the results of the statistical analyses. The full results of the statistical analyses are included in Appendix F. All parameters at MW-HW were within the intra-well prediction limit, thus all data from MW-HW were used for the deep well background dataset. Due to the small size of the background datasets the confidence levels for non-parametric tests were less than 95%. The tests for Chloride, COD, and Iron in MW-OW had a confidence level of 94.12%, the tests for Chloride in MW-9R and MW-10R had a confidence level of 81.82%, and the test for Barium in MW-9R had a confidence level of 80%. The background dataset for Selenium in the shallow wells contained greater than 15% non-detects, thus Aitchison's adjustment was applied prior to calculating the prediction interval.

The values from the current sampling event for pH, SC, and COD for both the shallow and deep wells, Sulfate, Nitrate + Nitrite, Barium and Selenium in the shallow wells, and Iron in the deep wells were within the prediction limits. Chloride exceeded the prediction limits in all wells, however only MW-OW exhibited a significant increasing trend. Cadmium in MW-10R and Zinc in MW-OW exceeded the prediction limits, but did not exhibit a significant increasing trend. Because none of the VOCs detected in MW-OW and MW-9R have been detected in the background wells, the prediction limits for these parameters was detection and all were exceedances. However, none of the parameters exhibited significant increasing trends.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Methane and groundwater monitoring was conducted by the MDEQ at the Mister M Landfill on June 1-3, 2009. Methane and oxygen levels were measured in four wells and two methane vents, water levels were measured in four wells, and groundwater samples were collected from five wells. All currently used wells were inspected. New caps have been installed on all currently used methane and groundwater monitoring wells.

No methane was detected in any site wells and only a minimal amount was detected in the north methane vent. Oxygen levels were normal except in MW-1 and the north methane vent, where oxygen was slightly depleted. Due to the presence of the methane vents no additional methane monitoring points are needed along the property line directly west of the fill area at this time. The office building is locked, thus methane monitoring of that structure can not be conducted.

The static water levels measured during this event were higher than the January 2009 measurements. These increases in water level were likely due to the spring snowmelt and precipitation, and are evidence that a relatively direct connection may exist between the surface and groundwater. Water levels will be monitored during the quarterly methane monitoring events in the future to provide additionally data on water level trends.

Groundwater analytical results indicate that water quality in MW-10R is normal and not impacted by the landfill. Chloride concentrations in MW-9R and MW-10R exceeded background levels, but were similar to previous measurements at those wells and showed no increasing trends. Three VOCs were detected in MW-9R at low levels. The contaminants present in MW-9R are different than those seen in MW-OW indicating that the contamination is from a different source; however the source of these VOCs is unknown. Because only three sampling events have been conducted at MW-9R, additional data is needed to evaluate the contamination in that well. Wells MW-5, MW-9R, and MW-10R will continue to be sampled in future events. The water quality in MW-HW continues to be normal and not impacted by the landfill. MW-HW will continue to be sampled on a regular basis to increase the background dataset size for the deep wells. Well MW-OW continues to show both inorganic and organic

contamination. Chloride has shown unusually high values during the last three monitoring event, and Sulfate has been unusually low. Iron and Zinc have returned to normal or near normal levels. VOCs continued to be detected in MW-OW at generally low levels but Vinyl chloride exceeds the Montana Human Health Standard for groundwater.

Immediately following this sampling event well MW-OW was redeveloped in an attempt to determine the source of organic contamination in that well. The results of the MW-OW redevelopment will be discussed in a separate report.

The next quarterly methane monitoring event will occur in September 2009. The facility should continue to perform semi-annual detection monitoring with the next groundwater sampling event being conducted in November or December 2009.

6.0 REFERENCES

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TABLES

Table 2: Summary of Results of Statistical Analyses

Parameter	Well	Prediction Interval Analysis					Trend Analysis	
		Distribution	Confidence Level (%)	Prediction Limit(s)	Result	Exceedance?	Slope (per yr)	Significant ?
pH	MW-9R	normal	95	8.05 - 7.28	7.5	No	N/A	N/A
	MW-10R	normal	95	8.05 - 7.28	7.7	No	N/A	N/A
	MW-OW	normal	95	7.85 - 7.00	7.65	No	N/A	N/A
SC	MW-9R	non-normal	81.82	1040	952	No	N/A	N/A
	MW-10R	non-normal	81.82	1040	1020	No	N/A	N/A
	MW-OW	normal	95	839.1	651.5	No	N/A	N/A
Chloride	MW-9R	normal	95	14.5	24	Yes	+0.861	?
	MW-10R	normal	95	14.5	23	Yes	-0.201	No
	MW-OW	non-normal	94.12	10	51	Yes	+1.511	Yes
Sulfate	MW-9R	normal	95	96.3	75	No	N/A	N/A
	MW-10R	normal	95	96.3	82	No	N/A	N/A
COD	MW-9R	ln-normal	95	120.8	7	No	N/A	N/A
	MW-10R	ln-normal	95	120.8	3	No	N/A	N/A
	MW-OW	non-normal	94.12	9	8.5	No	N/A	N/A
Nitrate+Nitrite	MW-9R	normal	95	3.539	3.47	No	N/A	N/A
	MW-10R	normal	95	3.539	1.42	No	N/A	N/A
Barium	MW-9R	non-normal	80	0.15	0.1	No	N/A	N/A
Cadmium	MW-10R	ND	N/A	ND	0.001	Yes	0	No
Iron	MW-OW	non-normal	94.12	0.52	0.47	No	N/A	N/A
Selenium	MW-10R	normal	95	0.2002	0.011	No	N/A	N/A
Zinc	MW-OW	normal	95	0.053	0.48	Yes	+0.019	No
Benzene	MW-OW	ND	N/A	ND	0.64 J	Yes	0	No
cis-1,2-DCE	MW-9R	ND	N/A	ND	7.8	Yes	+0.577	?
	MW-OW	ND	N/A	ND	18	Yes	+1.197	No
Ethyl benzene	MW-OW	ND	N/A	ND	0.345 J	Yes	0	No
Styrene	MW-OW	ND	N/A	ND	0.58 J	Yes	0	No
Tetrachloroethene	MW-9R	ND	N/A	ND	1.2	Yes	+0.046	?
Trichloroethene	MW-9R	ND	N/A	ND	0.42 J	Yes	-0.007	?
	MW-OW	ND	N/A	ND	0.16 J	Yes	0	No
Vinyl chloride	MW-OW	ND	N/A	ND	0.47 J	Yes	0	No

Notes:

ND = Non-detect

N/A = Not applicable

? = Insufficient data for test

FIGURES



Figure 1: Location Map

Adapted from State of Montana Highway Map.

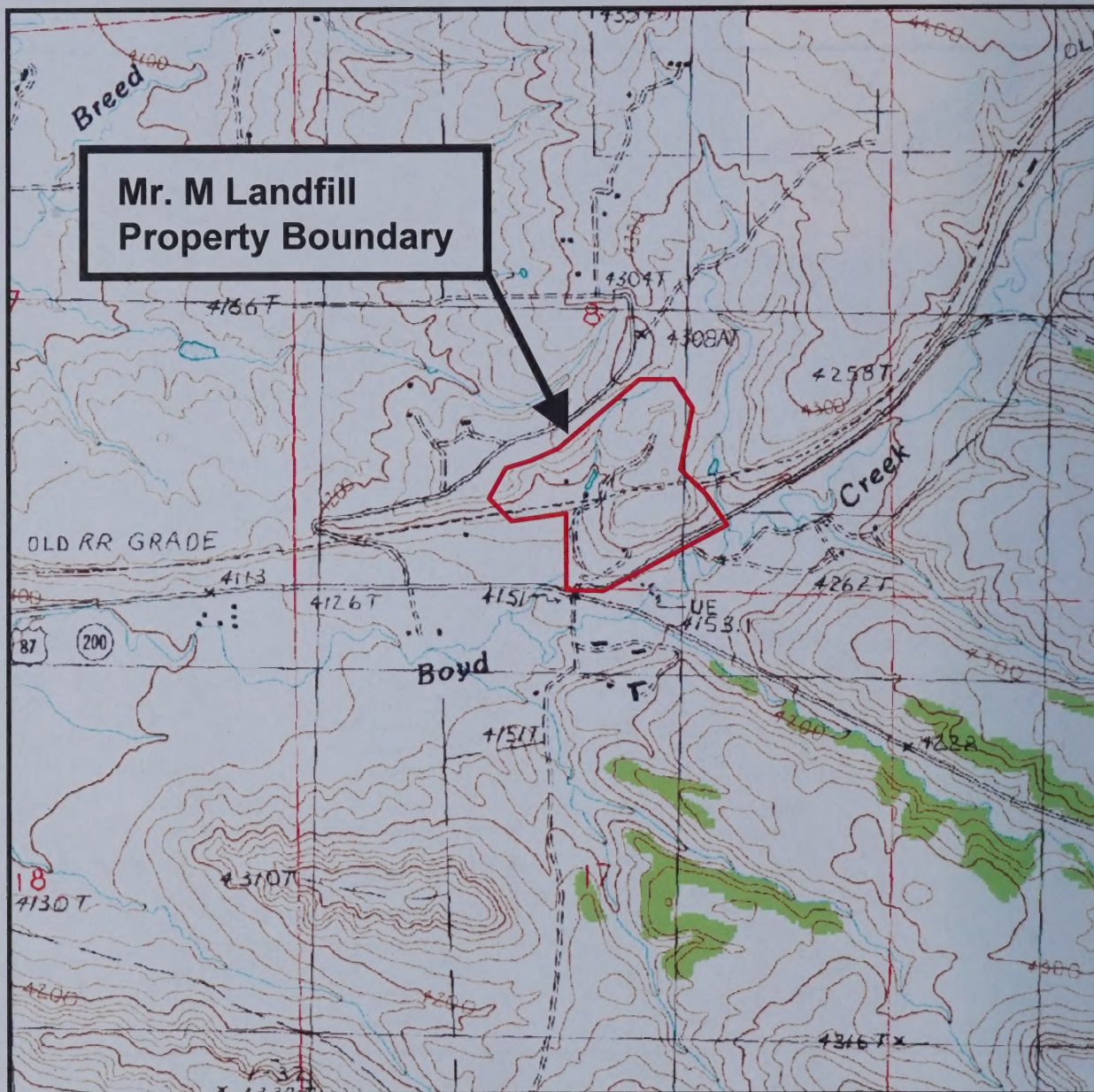


Figure 2: Facility Map

Adapted from USGS Pike Creek 24k Quadrangle.



Figure 3: Locations of Monitoring Points

Base Aerial Photo from 2004.



Figure 4: Groundwater Levels

Base Aerial Photo from 2004.

APPENDIX A: FIELD FORMS

1012 Arrive at Mr. M.
Houses on site.
Call Durrell to check in.
Starting Methane Monitoring
+ Water levels

12:00 Water Level Measurements
complete

1225 Spoke to neighbor, he keeps an eye on property for Marvin. Lives in house across from top another unit. He owns the horses. Informed him grazing is not currently approved for the site. Horses need to be moved. He said he would move the horses off site this weekend. Gave him one of my cards. Told him what we were doing at the site this week. Told him it was possible grazing would be permitted later when site issues were resolved.

WA 46 "Little like Home"

6-1-09 Martin Van Dant

1245 Lunch

1305 At house ~~start~~ ^{MVP} start
to get set up for sampling
Calibrate Hummin. Label
bottles.

1350 Set up at MW-HW

1445 Finished at MW-HW

1450 Set up at MW-OW

1630 Finished at MW-OW

1640 Sampling discharge seep on
east slope (large).

Maximal flow, gushing out of
ground. Photos taken.

Sample: VOCs

Metals

pH, Cond, SiO_2 , Chloride
Nitrate/Nitrite, Ca^{2+}

ID= M-M-LS-01

1715 Finished collecting, samples
Samples very dirty due to shallow
puddles. Dig hole at middle
seep to collect water overnight.
Will collect second sample from
freshly accumulated water in the
morning.

6-1-09

WPH

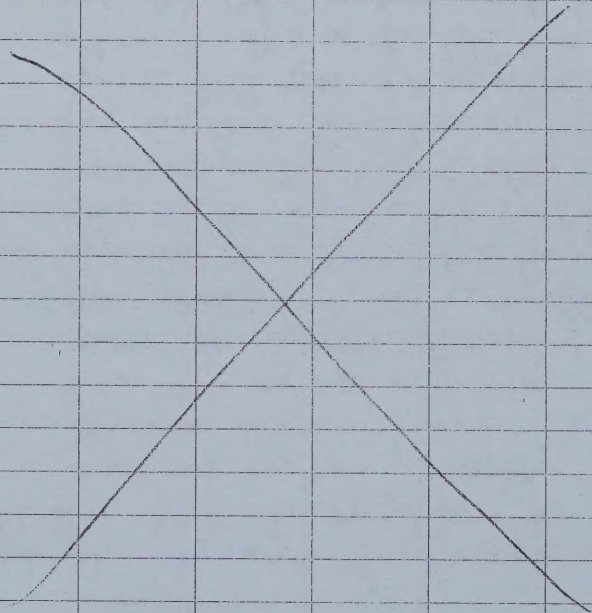
6-1-09 Martin Van Dant

1720 Check on seep on south

slope. Still a little standing,
water can not identify point
of origin. Dig hole at base
of slope to collect water overnight
for sampling tomorrow.

1730 Finished with hole, pack up.

1735 Leave site



WPH

6-1-09

"Let it be Rain"

6-2-09 Martin Van Dorn

720 Arrive on site, at MW-OW
to begin setting up for pumping.

750 Dump off equipment for
sampling at MW-5.

805 Check east slope seep, will
not collect water sample here.
Too little water.

810 Back at MW-OW, down pump

900 Need tubing connector, have
w/.

925 Back on site, finish setting
up to purge MW-OW.

950 Start purge DTW=25.71

1015 DTW 26.11, pumping 1.5 gpm
actual start time was 1010 due
to leaks that needed fixing.

pH = 7.51

Cond = 0.620

Turb = 84

Temp = 10.0

1025 DTW 26.26

1030 Bob + Shasta Arrive.

They will begin with borings
while I sample MW-9R, 10R, 45.

W. H. W. 6-2-09

6-2-09 Martin Van Dorn

1045 Set up to sample MW-9R

1048 MW-OW DTW = 26.43

1050 pH = 7.37

Cond = 0.560

Turb = 9

Temp = 9.8

1100 Start MW-9R

1140 Purge 10y, let recover

1145 MW-OW DTW = 26.57

1150 pH = 7.37

Cond = 0.549

Turb = 32

Temp = 10.4

1.3 gpm

1200 Set up at MW-10R

1325 Finished at MW-10R

1330 Lunch

1415 Back on site

1420 MW-OW DTW = 26.71

1425 pH = 7.12

Cond = 0.540

Turb = 44

Temp = 11.2

1435 Sample MW-9R

W. H. W. 6-2-09 "Return to the Rain"

6-2-09 Martin Van Dant

- 1510 Finished Sampling MW-9R
1515 Fuse on controller has blown
pump inoperable.
1520 Call Derek for TRS #
1-800-532-3381
1530 TRS say fuse should be available
at auto parts stores. Will check
and get back to them if not.
1605 Set up at MW-5
1640 Purged Dwyer, let recover -
1650 Going to get fuse.
1710 Back on site w/ new fuse
1715 Restart purging of MW-DW
1720 1.4 gpm
pH = 7.29
Cond = 0.546
Turb = 3
Temp = 10.2
1725 DTW = 26.28
1735 Check on south seep, water
with oily sheen has accumulated
in hole, will collect sample
1745 Sample from south seep will be
M-M-LS-02

6-2-09 W A R W

6-2-09 Martin Van Dant

- 1755 Collect sample from south
seep, not enough water for
Cyanide
1805 MW-DW DTW = 26.52
1810 pH = 7.03
Cond = 0.542
Turb = 1
Temp = 9.6
1.3 gpm
1815 Check on Bob & Shasta
They are finished for the day.
1820 Packing up truck.
1825 DTW = 26.55
pH = 7.03
Cond = 0.545
Turb = 0
Temp = 9.4
1.4 gpm
1835 Stop purging ~~MBD~~ MBD
1840 Leave site

6-2-09

W A R W "Rite in the Rain"

6-3-09 Martin Van Dant
 745 On site
 725 At MW-5 to collect sample
 810 Finished, pick up
 820 Set up to purge MW-2W
 825 DTW 25.33
 Start purge
 830 pH = 7.47
 Cond = 0.552
 Turb = 7
 Temp = 9.0
 1.5 gpm
 835 DTW = 26.26
 840 Go to help Bob & Shasta with cap assessment
 1050 Pick up bentonite & methane monitor
 1050 DTW 26.71
 1100 Filling holes & methane readings
 1230 Lunch
 1330 Back to filling holes & methane readings
 1510 Finished, pick up

6-3-09

WJH

6-3-09 Martin Van Dant
 1520 Bob & Shasta leave site
 1525 MW-2W DTW = 26.66
 1530 1.3 gpm
 pH = 7.32
 Cond = 0.533
 Turb = 63
 Temp = 12.6
 1550 Flagging & locating Leachate steps, plotting boring locations on Map
 1600 Location of LS-2 (south seep)
 N 47.07482
 W 109.34420 32ft
 1620 Location of LS-1 (west seep)
 N 47.07575
 W 109.34204 18ft
 1625 Photos of trailers moved off site to adjacent property. Taken from B030
 1645 Location of LS-3 (west seep)
 Not sampled, staining, no sheen. N 47.07600 18ft
 W 109.34354
 6-3-09 WJH

Return to the River

Martin Van Oort

Light Rain 50's

~~_____~~

what

Water Quality Meter Calibration Form

Site Name: Master M Landfill

Date: 6-1-09

Personnel: Martin Van Dant

Field Conditions: Cloudy ~60°

Meter Model: Haniba V-10

Parameters/Sensors: pH, Cond, Turb, DO

Parameter	Units	Standard Value	Pre-Calibration Reading		Post-Calibration Reading	
			Time	Value	Time	Value
pH	std	4.00	1315	3.99	1320	3.99
Cond	ns/cm	4.50	1315	4.52	1320	4.50
DO	mg/L	Error	1315	-0.07	1320	Error
Turb	NTU	0	1315	-10	1320	0
6-5-09						
pH	std	4.00	730	4.09	735	3.90
Cond	ns/cm	4.50	730	4.47	735	4.51
Turb	NTU	0	730	179	735	0

Notes: DO sensor not functioning

Signature: MAH

Page 1 of 1

Site Name: Mrs. M Lundfill Sample Location: MW-HW
 Personnel: Marta Van Oort Sample ID: M-MW-HW
 Date: 6-1-09 Field Conditions: Mostly Cloudy ~ 60°
 Condition of Well: Frost free spigot near back of house
 Depth to Water (DTW): — Total Depth of Well (TD): —
 Well Diameter: — Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469
 One Well Volume (gallons) = (TD - DTW) x C: — Three Well Volumes: —

Purge Equipment: Installed pump Pump Depth: — Start Time: 1400

[illegible]

Sample Time: 1420 Sampling Method: spigot

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
500mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 55 gal Final Depth to Water: — End Time: 1430

Notes: _____

Sampler Signature: Y. G. W. Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mr. M Landfill Sample Location: Office Well

Personnel: Martin Van Doot Sample ID: MW-04

Date: 6-1-09 Field Conditions: Partly Cloudy, ~60°, breezy

Condition of Well: No outer casing

Depth to Water (DTW): 25.67 Total Depth of Well (TD): —

Well Diameter: 4" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: — Three Well Volumes: —

Purge Equipment: hailer Pump Depth: — Start Time: 1520

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1525				7.34	0.511	10.1			27	
1530	1.4			7.15	0.500	9.1			19	
1537	3.0			7.13	0.501	8.9			21	
1544	4.7			7.13	0.502	8.8			18	
1552	6.3			7.13	0.502	8.6			18	

Sample Time: 1555 Sampling Method: hailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
500mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 7 gal Final Depth to Water: 25.71 End Time: 1622

Notes: Duplicate 1605

Sampler Signature: [Signature] Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Landfill Sample Location: MW-9R
 Personnel: Martin Van Dant Sample ID: M-M-MW-9R
 Date: 6-2-09 Field Conditions: Sunny, breeze ~60°
 Condition of Well: Good

Depth to Water (DTW): 38.27 Total Depth of Well (TD): 50.51

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 2.0 Three Well Volumes: 6.0

Purge Equipment: bailer Pump Depth: — Start Time: 1100

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1107	0.5			7.32	0.97	10.1			15	
1117	1.5			7.22	0.97	9.2			287	
1122	2.6			7.20	0.97	8.8			343	
1127	3.7			7.18	0.98	8.9			296	
1134	5.0			7.19	0.99	9.0			299	
1140	5.5		DRY							

Sample Time: 1450 Sampling Method: bailer

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
500mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 6 Final Depth to Water: — End Time: 1805

Notes: Purged box at 1140, let stand to recover

Sampler Signature: W. H. H. Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Muster M Landfill Sample Location: MW-10R
 Personnel: Martin Van Oort Sample ID: MCM-MW-10R
 Date: 6-2-08 Field Conditions: Sunny, breezy, 60°s

Condition of Well: _____

Depth to Water (DTW): 25.39 Total Depth of Well (TD): 50.47

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 4.1 Three Well Volumes: 12.3

Purge Equipment: booster Pump Depth: — Start Time: 1205

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1210	0.5			7.77	0.93	11.4			6	
1217	2			7.66	0.86	8.3			160	
1227	4			7.58	1.00	9.1			106	
1234	6.5			7.52	1.00	8.9			61	
1241	8.5			7.57	1.01	8.8			119	
1248	10.5			7.57	1.02	8.8			74	
1253	11.5			7.55	1.02	8.8			104	
1257	12.5			7.501	1.03	8.6			109	

Sample Time: 1300 Sampling Method: booster

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 12.5 Final Depth to Water: 25.65 End Time: 1320

Notes: _____

Sampler Signature: [Signature] Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Master M Landfill Sample Location: MW-S

Personnel: Martin Van Oort Sample ID: M-M-MW-S

Date: 6-2-08 Field Conditions: Sunny, breezy ~ 65°

Condition of Well: Good

Depth to Water (DTW): 96.33 Total Depth of Well (TD): 174.88

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 6.4 Three Well Volumes: 4.2

Purge Equipment: bailler Pump Depth: — Start Time: 1610

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1627	1.4			7.13	1.07	8.8			543	
1638	2.1			7.13	1.07	8.3			107	DRY
738			100.93							

Sample Time: 6-309 750 Sampling Method: bailler

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: _____ Final Depth to Water: _____ End Time: _____

Notes: Purged to x at 1638, lot recover

Sampler Signature: WAG Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: MT DEQ Solid Waste Section						Project Name, PWS, Permit, Etc. Master M. Landfill								Sample Origin State: MT			EPA/State Compliance: Yes ☒ No ☐																										
Report Mail Address: PO Box 200911, Helena, MT 59620						Contact Name: Marilyn Dant								Phone/Fax: 406-444-2802 or 614-291-8906			Email: mlynn.dant@mt.gov			Sampler: (Please Print) Marilyn Dant																							
Invoice Address: same						Invoice Contact & Phone: same								Purchase Order:			Quote/Bottle Order: 4127																										
Special Report/Formats – ELI must be notified prior to sample submittal for the following:																				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED										SEE ATTACHED		Normal Turnaround (TAT)		RUSH		Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page				Shipped by: Hand	
☐ DW	☐ GSA	☐ POTW/WWTP	☒ State: Montana	☐ Other:	☐ A2LA	☐ EDD/EDT (Electronic Data) Format: _____	☐ LEVEL IV	☐ NELAC											Cooler ID(s):			Receipt Temp 8.2 °C																					
																						On Ice: Yes No		Custody Seal Y N																			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				Collection Date	Collection Time	MATRIX	Dioxin/furans	NAT/MIL COD	VOCs - Tab 1	Synthetic	Pesticides / Herbicides	VOCs - Tab 2	Total Metals											Bottles/Coolers Intact Signature Match		Y N B C Y N Y N																	
1 M-M-HW				6-1-09	1420	7-W	X	X	X	X	X																		LABORATORY USE ONLY														
2 M-M-MW-OV				6-1-09	1555	7-W	X	X	X	X	X																																
3 M-M-MW-AW-D				6-1-09	1605	7-W	X	X	X	X	X																																
4 M-M-LS-O1				6-1-09	1700	6-W		X	X		X		X																														
5 M-M-MW-IWR				6-2-09	1500	7-W	X	X	X	X	X																																
6 M-M-MW-IR				6-2-09	1450	7-W	X	X	X	X	X																																
7 M-M-LS-OZ				6-2-09	1855	6-W		X	X		X		X																														
8 M-M-MW-Q				6-3-09	750	7-W	X	X	X	X	X																																
9 M-M-Pond				6-4-09	1805	3-V						X																															
10 M-M-OV-VOC				6-5-09	830	3-W						X																															
Custody Record MUST be Signed		Relinquished by (print): Marilyn Dant		Date/Time: 6-5-09 1205	Signature: <i>[Signature]</i>		Received by (print):		Date/Time:		Signature:																																
		Relinquished by (print):		Date/Time:	Signature:		Received by (print):		Date/Time:		Signature:																																
		Sample Disposal:		Return to Client:		Lab Disposal:		Received By Laboratory:		Date/Time:		Signature:																															

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

APPENDIX B: HISTORICAL GROUNDWATER LEVELS

Table B-1: Historical Water Levels

Date	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-7R	MW-8	MW-9	MW-9R	MW-10	MW-10R	MW-OW
6/16/93	Dry	Dry	Dry	Dry	Dry	Dry	N/A	Dry	N/A	N/A	N/A	N/A	NM
10/14/94	NM	NM	NM	NM	NM	NM	N/A	NM	Dry	N/A	4155.69	N/A	NM
12/15/95	4154.12	Dry	Dry	4177.65	4160.64	4173.00	N/A	Dry	4140.77	N/A	4160.92	N/A	NM
3/28/96	4157.37	NM	NM	NM	NM	4176.51	N/A	NM	4139.43	N/A	4158.09	N/A	NM
11/29/05	4154.17	4174.1	NM	4181.82	Dry	N/A	Dry	4155.06	N/A	4158 ⁽¹⁾	N/A	4161 ⁽¹⁾	NM
12/18/07	Dry	Dry	Dry	4165.54	Dry	N/A	Dry	4155.04	N/A	4158 ⁽¹⁾	N/A	4164 ⁽¹⁾	4161 ⁽¹⁾
1/21/09	4153.12	Dry	NM	4165.75 ⁽²⁾	NM ⁽³⁾	N/A	4176.49 ⁽⁴⁾	NM	N/A	4158 ⁽¹⁾	N/A	4164 ⁽¹⁾	4162 ⁽¹⁾
6/1/09	NM	NM	NM	4172.02	NM	N/A	NM	NM	N/A	4162 ⁽¹⁾	N/A	4170 ⁽¹⁾	4169 ⁽¹⁾

Notes:

NM = Not measured

N/A = Not applicable

(1) Reference elevation estimated from topographic contours (5ft) and field observations

(2) Deeper than tape, 2 ft. of water in well, DTW calculated from TD recorded 12/18/07

(3) Deeper than tape, DTW unknown

(4) 3 in. of water in well, DTW calculated from TD

Figure B-1: Static Water Levels in Shallow Wells

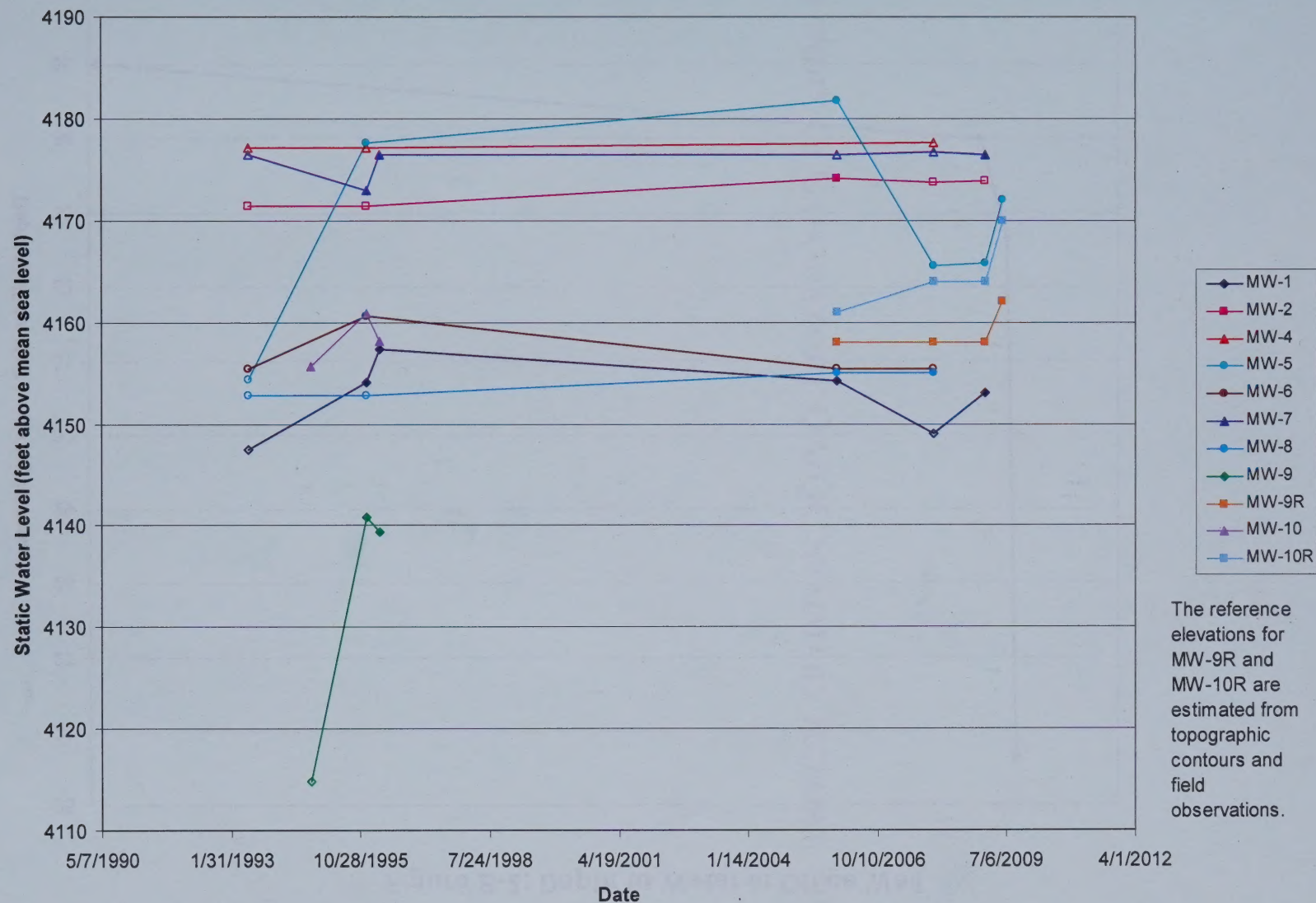
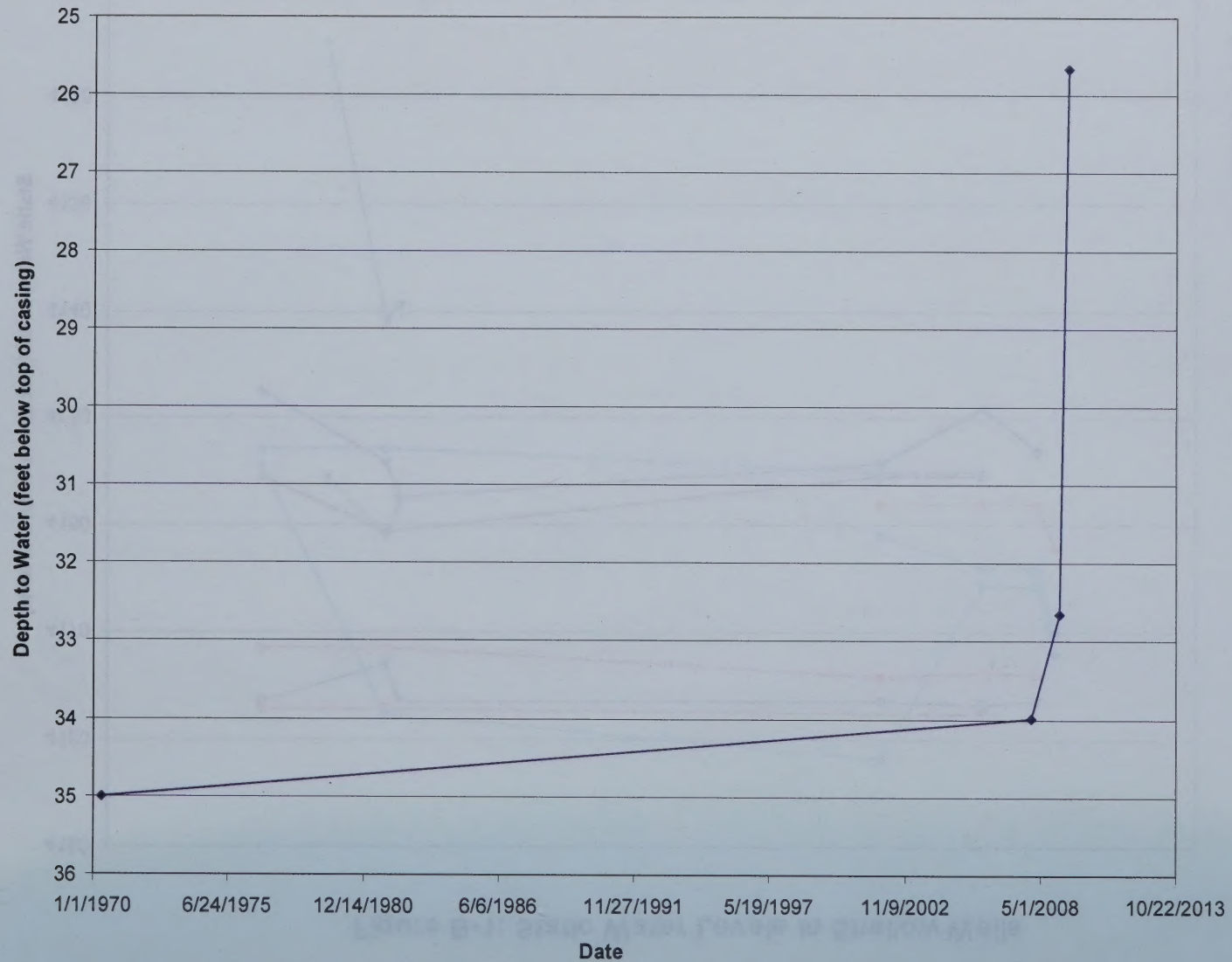


Figure B-2: Depth to Water in Office Well



APPENDIX C: LABORATORY QA/QC SUMMARY REPORT

Energy Laboratories Inc

Workorder Receipt Checklist



MT DEQ

H09060101

Login completed by: Wanda Johnson

Date and Time Received: 6/5/2009 12:08 PM

Reviewed by: Elizabeth Ulrich

Received by: rtt

Reviewed Date: 6/12/2009 10:54:00 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	2.2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☒	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	Not Applicable ☐

Contact and Corrective Action Comments:

MrM-LS01 has kidney shaped air bubble in all three vials. Added Sulfuric Acid to MrM-LS-01 & 02 Nutrient samples. Added Nitric Acid to metals container for MrM-LS-01 container. Wj



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-011
Client Sample ID: Trip Blank

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chloroform	0.34	ug/L	J	1.0		SW8260B	06/08/09 12:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-011
Client Sample ID: Trip Blank

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Surr: 1,2-Dichloroethane-d4	92.0	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: Dibromofluoromethane	80.0	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: p-Bromofluorobenzene	103	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: Toluene-d8	100	%REC		70-130		SW8260B	06/08/09 12:56 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 06/24/09

Work Order: H09060101

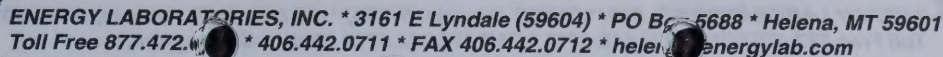
Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										Analytical Run: COND_090608A
Sample ID: CCV2_090608A	Continuing Calibration Verification Standard									06/08/09 13:37
Conductivity		714	umhos/cm	1.0	99	90	110			
Method: A2510 B										Batch: 090608A-COND-PROBE-W
Sample ID: LCS1_090608A	Laboratory Control Sample									Run: COND_090608A 06/08/09 13:07
Conductivity		1410	umhos/cm	1.0	100	90	110			
Sample ID: H09060101-004ADUP	Sample Duplicate									Run: COND_090608A 06/08/09 13:49
Conductivity		3930	umhos/cm	1.0				1.4	10	
Method: A4500-H B										Analytical Run: PH_090605B
Sample ID: CCV1_090605A	Continuing Calibration Verification Standard									06/05/09 16:50
pH		10.1	s.u.	0.10	101	99	101			
Method: A4500-H B										Batch: 090605A-PH-W
Sample ID: LCS1_090605A	Laboratory Control Sample									Run: PH_090605B 06/05/09 16:32
pH		7.04	s.u.	0.10	101	99	101			
Sample ID: H09060101-007ADUP	Sample Duplicate									Run: PH_090605B 06/05/09 16:44
pH		7.33	s.u.	0.10				0	2	
Method: E200.7										Batch: B_39394
Sample ID: MB-39394	4	Method Blank							Run: SUB-B130938	06/10/09 20:05
Barium		ND	mg/L	0.002						
Iron		ND	mg/L	0.009						
Vanadium		ND	mg/L	0.02						
Zinc		ND	mg/L	0.004						
Sample ID: LCS5-39394	4	Laboratory Control Sample							Run: SUB-B130938	06/10/09 20:09
Barium		0.5100	mg/L	0.10	102	85	115			
Iron		2.601	mg/L	0.030	104	85	115			
Vanadium		0.4984	mg/L	0.10	100	85	115			
Zinc		0.5220	mg/L	0.010	104	85	115			
Sample ID: B09060873-023AMS5	4	Sample Matrix Spike							Run: SUB-B130938	06/10/09 20:33
Barium		0.5100	mg/L	0.10	99	70	130			
Iron		18.06	mg/L	0.030		70	130			A
Vanadium		0.4841	mg/L	0.10	97	70	130			
Zinc		0.6430	mg/L	0.010	102	70	130			
Sample ID: B09060873-023AMSD	4	Sample Matrix Spike Duplicate							Run: SUB-B130938	06/10/09 20:37
Barium		0.4967	mg/L	0.10	96	70	130	2.6	20	
Iron		18.16	mg/L	0.030		70	130	0.6	20	A
Vanadium		0.4757	mg/L	0.10	95	70	130	1.8	20	
Zinc		0.6340	mg/L	0.010	100	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7		Analytical Run: SUB-B130938								
Sample ID: ICV	4 Continuing Calibration Verification Standard									06/10/09 13:52
Barium	801	2.57	mg/L	0.10	103	95	105			
Iron	801	2.62	mg/L	0.030	105	95	105			
Vanadium	801	2.40	mg/L	0.10	96	95	105			
Zinc	801	2.58	mg/L	0.010	103	95	105			
Cadmium	801	0.000	mg/L	0.000	100	100	100			
Copper	801	0.000	mg/L	0.000	100	100	100			
Lead	801	0.000	mg/L	0.000	100	100	100			
Vanadium	801	0.000	mg/L	0.000	100	100	100			
Chromium	801	0.000	mg/L	0.000	100	100	100			
Sample ID: SUB-B130938	5 Sample Matrix Spike									06/10/09 13:52
Barium	801	2.57	mg/L	0.10	103	95	105			
Iron	801	2.62	mg/L	0.030	105	95	105			
Vanadium	801	2.40	mg/L	0.10	96	95	105			
Zinc	801	2.58	mg/L	0.010	103	95	105			
Cadmium	801	0.000	mg/L	0.000	100	100	100			
Copper	801	0.000	mg/L	0.000	100	100	100			
Lead	801	0.000	mg/L	0.000	100	100	100			
Vanadium	801	0.000	mg/L	0.000	100	100	100			
Chromium	801	0.000	mg/L	0.000	100	100	100			
Sample ID: SUB-B130938	6 Sample Matrix Spike									06/10/09 13:52
Barium	801	2.57	mg/L	0.10	103	95	105			
Iron	801	2.62	mg/L	0.030	105	95	105			
Vanadium	801	2.40	mg/L	0.10	96	95	105			
Zinc	801	2.58	mg/L	0.010	103	95	105			
Cadmium	801	0.000	mg/L	0.000	100	100	100			
Copper	801	0.000	mg/L	0.000	100	100	100			
Lead	801	0.000	mg/L	0.000	100	100	100			
Vanadium	801	0.000	mg/L	0.000	100	100	100			
Chromium	801	0.000	mg/L	0.000	100	100	100			
Sample ID: SUB-B130938	7 Sample Matrix Spike									06/10/09 13:52
Barium	801	2.57	mg/L	0.10	103	95	105			
Iron	801	2.62	mg/L	0.030	105	95	105			
Vanadium	801	2.40	mg/L	0.10	96	95	105			
Zinc	801	2.58	mg/L	0.010	103	95	105			
Cadmium	801	0.000	mg/L	0.000	100	100	100			
Copper	801	0.000	mg/L	0.000	100	100	100			
Lead	801	0.000	mg/L	0.000	100	100	100			
Vanadium	801	0.000	mg/L	0.000	100	100	100			
Chromium	801	0.000	mg/L	0.000	100	100	100			
Sample ID: SUB-B130938	8 Sample Matrix Spike									06/10/09 13:52
Barium	801	2.57	mg/L	0.10	103	95	105			
Iron	801	2.62	mg/L	0.030	105	95	105			
Vanadium	801	2.40	mg/L	0.10	96	95	105			
Zinc	801	2.58	mg/L	0.010	103	95	105			
Cadmium	801	0.000	mg/L	0.000	100	100	100			
Copper	801	0.000	mg/L	0.000	100	100	100			
Lead	801	0.000	mg/L	0.000	100	100	100			
Vanadium	801	0.000	mg/L	0.000	100	100	100			
Chromium	801	0.000	mg/L	0.000	100	100	100			</

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: SUB-B130974		
Sample ID: ICV		9 Continuing Calibration Verification Standard								06/11/09 09:24
Antimony		2.44	mg/L	0.037	98	95	105			
Barium		2.56	mg/L	0.10	103	95	105			
Beryllium		1.28	mg/L	0.010	102	95	105			
Chromium		2.52	mg/L	0.050	101	95	105			
Cobalt		2.44	mg/L	0.020	97	95	105			
Copper		2.52	mg/L	0.010	101	95	105			
Iron		2.54	mg/L	0.030	102	95	105			
Vanadium		2.49	mg/L	0.10	100	95	105			
Zinc		2.48	mg/L	0.010	99	95	105			
Method: E200.7								Batch: B_R130974		
Sample ID: MB-TJADIS090611A		9 Method Blank								06/11/09 09:50
Antimony		ND	mg/L	0.04						
Barium		ND	mg/L	0.0006						
Beryllium		0.0003	mg/L	0.0001						
Chromium		ND	mg/L	0.005						
Cobalt		ND	mg/L	0.005						
Copper		ND	mg/L	0.005						
Iron		ND	mg/L	0.003						
Vanadium		0.008	mg/L	0.005						
Zinc		0.003	mg/L	0.002						
Sample ID: LFB-TJADIS090611A		9 Laboratory Fortified Blank								06/11/09 09:54
Antimony		0.946	mg/L	0.038	95	85	115			
Barium		1.07	mg/L	0.10	107	85	115			
Beryllium		0.522	mg/L	0.010	104	85	115			
Chromium		1.00	mg/L	0.050	100	85	115			
Cobalt		0.982	mg/L	0.020	98	85	115			
Copper		1.02	mg/L	0.010	102	85	115			
Iron		5.01	mg/L	0.030	100	85	115			
Vanadium		0.998	mg/L	0.10	99	85	115			
Zinc		1.01	mg/L	0.010	100	85	115			
Sample ID: B09060873-048AMS2		9 Sample Matrix Spike								06/11/09 18:14
Antimony		0.975	mg/L	0.038	98	70	130			
Barium		1.08	mg/L	0.10	107	70	130			
Beryllium		0.510	mg/L	0.0010	102	70	130			
Chromium		1.00	mg/L	0.010	100	70	130			
Cobalt		0.991	mg/L	0.010	99	70	130			
Copper		1.01	mg/L	0.010	101	70	130			
Iron		5.09	mg/L	0.030	99	70	130			
Vanadium		0.999	mg/L	0.10	100	70	130			
Zinc		1.01	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: B_R130974										
Sample ID: B09060873-048AMSD 9 Sample Matrix Spike Duplicate Run: SUB-B130974 06/11/09 18:18										
Antimony		1.04	mg/L	0.038	104	70	130	6	20	
Barium		1.08	mg/L	0.10	108	70	130	0.4	20	
Beryllium		0.512	mg/L	0.0010	102	70	130	0.3	20	
Chromium		1.03	mg/L	0.010	103	70	130	2.9	20	
Cobalt		1.02	mg/L	0.010	102	70	130	2.9	20	
Copper		1.01	mg/L	0.010	101	70	130	0.5	20	
Iron		5.24	mg/L	0.030	102	70	130	3	20	
Vanadium		1.00	mg/L	0.10	100	70	130	0.3	20	
Zinc		1.04	mg/L	0.010	104	70	130	2.9	20	
Sample ID: H09060103-004B 9 Sample Matrix Spike Run: SUB-B130974 06/11/09 19:11										
Antimony		4.99	mg/L	0.19	100	70	130			
Barium		5.65	mg/L	0.10	108	70	130			
Beryllium		2.58	mg/L	0.0010	103	70	130			
Chromium		4.99	mg/L	0.027	100	70	130			
Cobalt		4.90	mg/L	0.025	98	70	130			
Copper		5.03	mg/L	0.023	101	70	130			
Iron		25.7	mg/L	0.030	98	70	130			
Vanadium		4.98	mg/L	0.10	99	70	130			
Zinc		5.16	mg/L	0.010	101	70	130			
Sample ID: H09060103-004B 9 Sample Matrix Spike Duplicate Run: SUB-B130974 06/11/09 19:15										
Antimony		4.98	mg/L	0.19	100	70	130	0.1	20	
Barium		5.60	mg/L	0.10	107	70	130	0.9	20	
Beryllium		2.56	mg/L	0.0010	102	70	130	1.1	20	
Chromium		4.93	mg/L	0.027	99	70	130	1.2	20	
Cobalt		4.90	mg/L	0.025	98	70	130	0	20	
Copper		5.00	mg/L	0.023	100	70	130	0.6	20	
Iron		25.8	mg/L	0.030	99	70	130	0.3	20	
Vanadium		4.97	mg/L	0.10	99	70	130	0.2	20	
Zinc		5.13	mg/L	0.010	100	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_39394
Sample ID: MB-39394	13 Method Blank				Run: SUB-B130996				06/11/09 16:54	
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0004						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.001	mg/L	0.0009						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		5E-05	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	0.0001						
Thallium		ND	mg/L	2E-05						
Zinc		ND	mg/L	0.004						
Sample ID: LCS5-39394	13 Laboratory Control Sample				Run: SUB-B130996				06/11/09 16:58	
Antimony		0.535	mg/L	0.0050	107	85	115			
Arsenic		0.524	mg/L	0.0050	105	85	115			
Beryllium		0.261	mg/L	0.0010	104	85	115			
Cadmium		0.257	mg/L	0.0010	103	85	115			
Chromium		0.486	mg/L	0.010	97	85	115			
Cobalt		0.480	mg/L	0.010	96	85	115			
Copper		0.483	mg/L	0.010	97	85	115			
Lead		0.505	mg/L	0.010	101	85	115			
Nickel		0.493	mg/L	0.010	99	85	115			
Selenium		0.515	mg/L	0.0050	103	85	115			
Silver		0.0518	mg/L	0.0050	104	85	115			
Thallium		0.506	mg/L	0.0050	101	85	115			
Zinc		0.516	mg/L	0.010	103	85	115			
Sample ID: MB-39394	13 Method Blank				Run: SUB-B131155				06/15/09 19:18	
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.0006	mg/L	0.0002						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		0.0001	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	9E-05						
Thallium		ND	mg/L	1E-05						
Zinc		0.001	mg/L	0.0006						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Sample ID: LCS5-39394 13 Laboratory Control Sample Run: SUB-B131155 Batch: B_39394 06/15/09 19:22										
Antimony		0.5206	mg/L	0.0050	104	85	115			
Arsenic		0.5231	mg/L	0.0050	105	85	115			
Beryllium		0.2607	mg/L	0.0010	104	85	115			
Cadmium		0.2649	mg/L	0.0010	106	85	115			
Chromium		0.4935	mg/L	0.010	99	85	115			
Cobalt		0.4897	mg/L	0.010	98	85	115			
Copper		0.4763	mg/L	0.010	95	85	115			
Lead		0.5004	mg/L	0.010	100	85	115			
Nickel		0.4872	mg/L	0.010	97	85	115			
Selenium		0.5260	mg/L	0.0050	105	85	115			
Silver		0.05129	mg/L	0.0050	103	85	115			
Thallium		0.5108	mg/L	0.0050	102	85	115			
Zinc		0.5171	mg/L	0.010	103	85	115			
Sample ID: B09060873-023AMS5 13 Sample Matrix Spike Run: SUB-B131155 06/15/09 20:47										
Antimony		0.5090	mg/L	0.0050	102	70	130			
Arsenic		0.5322	mg/L	0.0050	102	70	130			
Beryllium		0.2234	mg/L	0.0010	89	70	130			
Cadmium		0.2458	mg/L	0.0010	98	70	130			
Chromium		0.4818	mg/L	0.010	96	70	130			
Cobalt		9.046	mg/L	0.010		70	130			A
Copper		8.148	mg/L	0.010		70	130			A
Lead		0.4974	mg/L	0.010	99	70	130			
Nickel		1.091	mg/L	0.010	89	70	130			
Selenium		0.5048	mg/L	0.0050	101	70	130			
Silver		0.04898	mg/L	0.0050	97	70	130			
Thallium		0.5062	mg/L	0.0050	101	70	130			
Zinc		0.6308	mg/L	0.010	98	70	130			
Sample ID: B09060873-023AMSD 13 Sample Matrix Spike Duplicate Run: SUB-B131155 06/15/09 20:51										
Antimony		0.5270	mg/L	0.0050	105	70	130	3.5	20	
Arsenic		0.5440	mg/L	0.0050	104	70	130	2.2	20	
Beryllium		0.2304	mg/L	0.0010	92	70	130	3.1	20	
Cadmium		0.2542	mg/L	0.0010	102	70	130	3.4	20	
Chromium		0.4888	mg/L	0.010	97	70	130	1.4	20	
Cobalt		9.336	mg/L	0.010		70	130	3.2	20	A
Copper		8.352	mg/L	0.010		70	130	2.5	20	A
Lead		0.5034	mg/L	0.010	101	70	130	1.2	20	
Nickel		1.127	mg/L	0.010	96	70	130	3.2	20	
Selenium		0.5180	mg/L	0.0050	103	70	130	2.6	20	
Silver		0.05086	mg/L	0.0050	101	70	130	3.8	20	
Thallium		0.5136	mg/L	0.0050	103	70	130	1.5	20	
Zinc		0.6452	mg/L	0.010	101	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 06/24/09

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Sample ID: MB-39394	13	Method Blank				Run: SUB-B131236				Batch: B_39394 06/16/09 18:59
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.001	mg/L	0.0002						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		0.0001	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	9E-05						
Thallium		ND	mg/L	1E-05						
Zinc		0.0009	mg/L	0.0006						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: SUB-B130996								
Sample ID: QCS - 090602A,09040		Initial Calibration Verification Standard								06/11/09 10:01
Arsenic		0.050	mg/L	0.0050	100	90	110			
Cadmium		0.025	mg/L	0.0010	99	90	110			
Lead		0.049	mg/L	0.010	97	90	110			
Mercury		0.0019	mg/L	0.0010	96	90	110			
Nickel		0.049	mg/L	0.010	98	90	110			
Selenium		0.049	mg/L	0.0050	99	90	110			
Silver		0.026	mg/L	0.0050	102	90	110			
Thallium		0.050	mg/L	0.10	99	90	110			
Method: E200.8		Batch: B_R130996								
Sample ID: LRB		Method Blank								06/11/09 10:32
		Run: SUB-B130996								
Arsenic		ND	mg/L	3E-05						
Cadmium		ND	mg/L	8E-05						
Lead		2E-05	mg/L	8E-06						
Mercury		1E-05	mg/L	8E-06						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	0.0002						
Silver		0.0002	mg/L	2E-05						
Thallium		1E-05	mg/L	8E-06						
Sample ID: LFB		Laboratory Fortified Blank								06/11/09 10:40
		Run: SUB-B130996								
Arsenic		0.051	mg/L	0.0050	103	85	115			
Cadmium		0.051	mg/L	0.0010	101	85	115			
Lead		0.051	mg/L	0.010	101	85	115			
Mercury		0.0010	mg/L	0.0010	100	85	115			
Nickel		0.051	mg/L	0.010	102	85	115			
Selenium		0.051	mg/L	0.0050	102	85	115			
Silver		0.020	mg/L	0.0050	97	85	115			
Thallium		0.051	mg/L	0.10	101	85	115			
Sample ID: B09060907-009BMS		Sample Matrix Spike								06/11/09 19:29
		Run: SUB-B130996								
Arsenic		3.76	mg/L	0.0050		70	130			A
Cadmium		0.260	mg/L	0.0010	103	70	130			
Lead		0.255	mg/L	0.010	102	70	130			
Mercury		0.00510	mg/L	0.0010	101	70	130			
Nickel		0.240	mg/L	0.010	95	70	130			
Selenium		0.300	mg/L	0.0050	99	70	130			
Silver		0.0856	mg/L	0.0050	84	70	130			
Thallium		0.255	mg/L	0.0050	102	70	130			
Sample ID: B09060907-009BMSD		Sample Matrix Spike Duplicate								06/11/09 19:33
		Run: SUB-B130996								
Arsenic		3.77	mg/L	0.0050		70	130	0.1	20	A
Cadmium		0.259	mg/L	0.0010	103	70	130	0.1	20	
Lead		0.255	mg/L	0.010	102	70	130	0.1	20	
Mercury		0.00531	mg/L	0.0010	105	70	130	4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_R130996
Sample ID: B09060907-009BMSD 8 Sample Matrix Spike Duplicate										Run: SUB-B130996 06/11/09 19:33
Nickel		0.242	mg/L	0.010	95	70	130	0.7	20	
Selenium		0.295	mg/L	0.0050	97	70	130	1.7	20	
Silver		0.0804	mg/L	0.0050	79	70	130	6.3	20	
Thallium		0.255	mg/L	0.0050	102	70	130	0	20	
Method: E200.8										Analytical Run: SUB-B131155
Sample ID: QCS - 090602A,09040 13 Initial Calibration Verification Standard										06/15/09 21:27
Antimony		0.049	mg/L	0.050	98	90	110			
Arsenic		0.051	mg/L	0.0050	102	90	110			
Beryllium		0.025	mg/L	0.0010	99	90	110			
Cadmium		0.025	mg/L	0.0010	100	90	110			
Chromium		0.049	mg/L	0.010	99	90	110			
Cobalt		0.049	mg/L	0.010	99	90	110			
Copper		0.049	mg/L	0.010	99	90	110			
Lead		0.050	mg/L	0.010	99	90	110			
Nickel		0.050	mg/L	0.010	99	90	110			
Selenium		0.052	mg/L	0.0050	104	90	110			
Silver		0.026	mg/L	0.0050	103	90	110			
Thallium		0.051	mg/L	0.10	102	90	110			
Zinc		0.052	mg/L	0.010	104	90	110			
Sample ID: QCS - 090602A,09040 13 Initial Calibration Verification Standard										06/15/09 10:41
Antimony		0.049	mg/L	0.050	98	90	110			
Arsenic		0.051	mg/L	0.0050	101	90	110			
Beryllium		0.025	mg/L	0.0010	98	90	110			
Cadmium		0.025	mg/L	0.0010	99	90	110			
Chromium		0.049	mg/L	0.010	99	90	110			
Cobalt		0.049	mg/L	0.010	99	90	110			
Copper		0.049	mg/L	0.010	98	90	110			
Lead		0.050	mg/L	0.010	99	90	110			
Nickel		0.049	mg/L	0.010	99	90	110			
Selenium		0.052	mg/L	0.0050	103	90	110			
Silver		0.025	mg/L	0.0050	101	90	110			
Thallium		0.050	mg/L	0.10	100	90	110			
Zinc		0.051	mg/L	0.010	103	90	110			
Method: E200.8										Analytical Run: SUB-B131236
Sample ID: QCS - 090602A,09040 Initial Calibration Verification Standard										06/16/09 11:02
Arsenic		0.051	mg/L	0.0050	102	90	110			
Sample ID: QCS - 090602A,09040 Initial Calibration Verification Standard										06/16/09 16:32
Arsenic		0.050	mg/L	0.0050	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										Batch: B_39438
Sample ID: MB-39438		Method Blank					Run: SUB-B130995			06/11/09 12:47
Mercury		ND	mg/L	5E-05						
Sample ID: LFB-39438		Laboratory Fortified Blank					Run: SUB-B130995			06/11/09 12:49
Mercury		0.0019	mg/L	0.0010	94	85	115			
Sample ID: B09060911-001BMS		Sample Matrix Spike					Run: SUB-B130995			06/11/09 13:17
Mercury		0.0018	mg/L	0.0010	90	70	130			
Sample ID: B09060911-001BMSD		Sample Matrix Spike Duplicate					Run: SUB-B130995			06/11/09 13:20
Mercury		0.0019	mg/L	0.0010	93	70	130	3.3	30	
Sample ID: B09060766-021BMS		Sample Matrix Spike					Run: SUB-B130995			06/11/09 12:56
Mercury		0.0019	mg/L	0.0010	93	70	130			
Sample ID: B09060766-021BMSD		Sample Matrix Spike Duplicate					Run: SUB-B130995			06/11/09 12:59
Mercury		0.0019	mg/L	0.0010	94	70	130	1.6	30	

Method: E245.1										Analytical Run: SUB-B130995
Sample ID: QCS		Initial Calibration Verification Standard								06/11/09 12:39
Mercury		0.0021	mg/L	0.0010	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Analytical Run: IC101-H_090616A
Sample ID: ICV 2 Initial Calibration Verification Standard										06/16/09 15:40
Chloride		2.5	mg/L	1.0	100	90	110			
Sulfate		9.7	mg/L	1.0	97	90	110			
Sample ID: CCV 2 Continuing Calibration Verification Standard										06/17/09 01:14
Chloride		26	mg/L	1.0	103	90	110			
Sulfate		51	mg/L	1.0	102	90	110			
Sample ID: CCV 2 Continuing Calibration Verification Standard										06/17/09 05:04
Chloride		26	mg/L	1.0	102	90	110			
Sulfate		51	mg/L	1.0	101	90	110			
Method: E300.0										Batch: R54350
Sample ID: LCS 2 Laboratory Control Sample										Run: IC101-H_090616A 06/16/09 15:56
Chloride		92	mg/L	1.0	106	90	110			
Sulfate		27	mg/L	1.0	95	90	110			
Sample ID: LFB 2 Laboratory Fortified Blank										Run: IC101-H_090616A 06/16/09 16:12
Chloride		5.2	mg/L	1.0	103	90	110			
Sulfate		9.7	mg/L	1.0	93	90	110			
Sample ID: MBLK 2 Method Blank										Run: IC101-H_090616A 06/16/09 16:29
Chloride		ND	mg/L	0.05						
Sulfate		0.5	mg/L	0.1						
Sample ID: H09060101-001A MS 2 Sample Matrix Spike										Run: IC101-H_090616A 06/17/09 02:36
Chloride		37	mg/L	1.0	109	90	110			
Sulfate		92	mg/L	1.0	110	90	110			
Sample ID: H09060101-001A MSD 2 Sample Matrix Spike Duplicate										Run: IC101-H_090616A 06/17/09 02:53
Chloride		37	mg/L	1.0	109	90	110	0.2	20	
Sulfate		91	mg/L	1.0	109	90	110	0.2	20	
Sample ID: H09060103-003A MS 2 Sample Matrix Spike										Run: IC101-H_090616A 06/17/09 06:26
Chloride		100	mg/L	1.0	109	90	110			
Sulfate		61	mg/L	1.0	105	90	110			
Sample ID: H09060103-003A MSD 2 Sample Matrix Spike Duplicate										Run: IC101-H_090616A 06/17/09 06:43
Chloride		100	mg/L	1.0	108	90	110	0.1	20	
Sulfate		61	mg/L	1.0	105	90	110	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2 Analytical Run: NUTRIENTS_090609C										
Sample ID: ICV-1	Initial Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N		1.050	mg/L	0.050	105	90	110			06/09/09 16:30
Sample ID: CCV-4	Continuing Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110			06/09/09 16:36
Sample ID: CCV-21	Continuing Calibration Verification Standard									
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110			06/09/09 17:10
Method: E353.2 Batch: A2009-06-09_5_NO3_02										
Sample ID: LCS-2	Laboratory Control Sample									
Nitrogen, Nitrate+Nitrite as N		16.10	mg/L	0.095	106	90	110			06/09/09 16:32
Sample ID: LFB-3	Laboratory Fortified Blank									
Nitrogen, Nitrate+Nitrite as N		0.5400	mg/L	0.050	108	90	110			06/09/09 16:34
Sample ID: MBLK-7	Method Blank									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010						06/09/09 16:42
Sample ID: H09060094-002AMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		1.54	mg/L	0.050	101	90	110			06/09/09 16:54
Sample ID: H09060094-002AMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		1.52	mg/L	0.050	99	90	110	1.3	20	06/09/09 16:56
Sample ID: H09060107-001DMS	Sample Matrix Spike									
Nitrogen, Nitrate+Nitrite as N		1.400	mg/L	0.050	103	90	110			06/09/09 17:24
Sample ID: H09060107-001DMSD	Sample Matrix Spike Duplicate									
Nitrogen, Nitrate+Nitrite as N		1.410	mg/L	0.050	104	90	110	0.7	20	06/09/09 17:26
Method: E410.4 Analytical Run: SPECTRO_090612A										
Sample ID: CCV	Continuing Calibration Verification Standard									
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	101	90	110			06/12/09 15:00
Method: E410.4 Batch: R54236										
Sample ID: LCS	Laboratory Control Sample									
Oxygen Demand, Chemical (COD)		310	mg/L	4.7	105	90	110			06/12/09 15:00
Sample ID: MBLK	Method Blank									
Oxygen Demand, Chemical (COD)		ND	mg/L	0.9						06/12/09 15:00
Sample ID: H09060101-005BMS	Sample Matrix Spike									
Oxygen Demand, Chemical (COD)		52	mg/L	1.0	99	90	110			06/12/09 15:00
Sample ID: H09060101-005BMSD	Sample Matrix Spike Duplicate									
Oxygen Demand, Chemical (COD)		53	mg/L	1.0	99	90	110	0.6	20	06/12/09 15:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod								Analytical Run: SUB-B131074		
Sample ID: ICV-1		Initial Calibration Verification Standard							06/12/09 10:49	
Cyanide, Total		0.149	mg/L	0.0050	100	90	110			
Method: Kelada mod								Batch: B_R131074		
Sample ID: LFB-2		Laboratory Fortified Blank				Run: SUB-B131074		06/12/09 10:51		
Cyanide, Total		0.109	mg/L	0.0050	109	90	110			
Sample ID: MBLK-3		Method Blank				Run: SUB-B131074		06/12/09 10:53		
Cyanide, Total		ND	mg/L	0.003						
Sample ID: B09060914-001EMS		Sample Matrix Spike				Run: SUB-B131074		06/12/09 12:01		
Cyanide, Total		0.0968	mg/L	0.0050	87	90	110			S
Sample ID: B09060914-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-B131074		06/12/09 12:03		
Cyanide, Total		0.104	mg/L	0.0050	94	90	110	7.2	10	
Sample ID: B09061050-001DMS		Sample Matrix Spike				Run: SUB-B131074		06/12/09 12:34		
Cyanide, Total		0.0980	mg/L	0.0050	98	90	110			
Sample ID: B09061050-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-B131074		06/12/09 12:36		
Cyanide, Total		0.0974	mg/L	0.0050	97	90	110	0.6	10	
Sample ID: B09060896-003DMS		Sample Matrix Spike				Run: SUB-B131074		06/12/09 11:31		
Cyanide, Total		0.0877	mg/L	0.0050	88	90	110			S
Sample ID: B09060896-003DMSD		Sample Matrix Spike Duplicate				Run: SUB-B131074		06/12/09 11:33		
Cyanide, Total		0.0877	mg/L	0.0050	88	90	110	0	10	S
Sample ID: B09061159-003EMS		Sample Matrix Spike				Run: SUB-B131074		06/12/09 13:01		
Cyanide, Total		0.0623	mg/L	0.0050	62	90	110			S
Sample ID: B09061159-003EMSD		Sample Matrix Spike Duplicate				Run: SUB-B131074		06/12/09 13:03		
Cyanide, Total		0.0603	mg/L	0.0050	60	90	110	3.2	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090608B								
Sample ID: CCV060809A	54 Continuing Calibration Verification Standard									06/08/09 09:22
Acetone		44.8	ug/L	20	90	70	130			
Acrylonitrile		50.0	ug/L	20	100	70	130			
Benzene		4.52	ug/L	1.0	90	70	130			
Bromochloromethane		4.92	ug/L	1.0	98	70	130			
Bromodichloromethane		4.52	ug/L	1.0	90	70	130			
Bromoform		4.44	ug/L	1.0	89	70	130			
Bromomethane		4.24	ug/L	1.0	85	70	130			
Carbon disulfide		4.76	ug/L	1.0	95	70	130			
Carbon tetrachloride		4.68	ug/L	1.0	94	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		4.68	ug/L	1.0	94	70	130			
Chloroethane		4.52	ug/L	1.0	90	70	130			
Chloroform		4.76	ug/L	1.0	95	80	120			
Chloromethane		4.56	ug/L	1.0	91	70	130			
1,2-Dibromo-3-chloropropane		4.28	ug/L	1.0	86	70	130			
1,2-Dibromoethane		4.40	ug/L	1.0	88	70	130			
Dibromomethane		4.72	ug/L	1.0	94	70	130			
1,2-Dichlorobenzene		4.68	ug/L	1.0	94	70	130			
1,4-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
trans-1,4-Dichloro-2-butene		4.96	ug/L	1.0	99	70	130			
Dichlorodifluoromethane		5.20	ug/L	1.0	104	70	130			
1,1-Dichloroethane		4.64	ug/L	1.0	93	70	130			
1,2-Dichloroethane		4.40	ug/L	1.0	88	70	130			
1,1-Dichloroethene		4.52	ug/L	1.0	90	80	120			
cis-1,2-Dichloroethene		4.80	ug/L	1.0	96	70	130			
trans-1,2-Dichloroethene		4.88	ug/L	1.0	98	70	130			
1,2-Dichloropropane		4.72	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		4.76	ug/L	1.0	95	70	130			
trans-1,3-Dichloropropene		4.68	ug/L	1.0	94	70	130			
Ethylbenzene		4.96	ug/L	1.0	99	80	120			
2-Hexanone		44.4	ug/L	20	89	70	130			
Iodomethane		4.68	ug/L	1.0	94	70	130			
Methyl ethyl ketone		44.0	ug/L	20	88	70	130			
Methyl isobutyl ketone		44.8	ug/L	20	90	70	130			
Methylene chloride		4.76	ug/L	1.0	95	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		4.92	ug/L	1.0	98	70	130			
1,1,2,2-Tetrachloroethane		4.68	ug/L	1.0	94	70	130			
Tetrachloroethene		4.84	ug/L	1.0	97	70	130			
Toluene		4.72	ug/L	1.0	94	80	120			
1,1,1-Trichloroethane		4.96	ug/L	1.0	99	70	130			
1,1,2-Trichloroethane		4.84	ug/L	1.0	97	70	130			
Trichloroethene		4.68	ug/L	1.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090608B								
Sample ID: CCV060809A		54 Continuing Calibration Verification Standard								06/08/09 09:22
Trichlorofluoromethane		5.16	ug/L	1.0	103	70	130			
1,2,3-Trichloropropane		4.12	ug/L	1.0	82	70	130			
Vinyl acetate		4.12	ug/L	1.0	82	70	130			
Vinyl chloride		4.92	ug/L	1.0	98	80	120			
m+p-Xylenes		10.3	ug/L	1.0	103	70	130			
o-Xylene		5.32	ug/L	1.0	106	70	130			
Xylenes, Total		15.6	ug/L	1.0	104	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	96	70	130			
Surr: Dibromofluoromethane				1.0	85	70	130			
Surr: p-Bromofluorobenzene				1.0	97	70	130			
Surr: Toluene-d8				1.0	103	70	130			

Method: SW8260B		Batch: R54232					
Sample ID: LCS060809A	54 Laboratory Control Sample	Run: 1SATURN_090608B					06/08/09 10:07
Acetone	47.2 ug/L	20	94	70	130		
Acrylonitrile	50.8 ug/L	20	102	70	130		
Benzene	4.40 ug/L	1.0	88	70	130		
Bromochloromethane	4.80 ug/L	1.0	96	70	130		
Bromodichloromethane	4.72 ug/L	1.0	94	70	130		
Bromoform	4.24 ug/L	1.0	85	70	130		
Bromomethane	4.20 ug/L	1.0	84	70	130		
Carbon disulfide	4.88 ug/L	1.0	98	70	130		
Carbon tetrachloride	4.68 ug/L	1.0	94	70	130		
Chlorobenzene	5.00 ug/L	1.0	100	70	130		
Chlorodibromomethane	4.68 ug/L	1.0	94	70	130		
Chloroethane	4.80 ug/L	1.0	96	70	130		
Chloroform	4.64 ug/L	1.0	93	70	130		
Chloromethane	4.24 ug/L	1.0	85	70	130		
1,2-Dibromo-3-chloropropane	4.76 ug/L	1.0	95	70	130		
1,2-Dibromoethane	4.40 ug/L	1.0	88	70	130		
Dibromomethane	4.76 ug/L	1.0	95	70	130		
1,2-Dichlorobenzene	5.08 ug/L	1.0	102	70	130		
1,4-Dichlorobenzene	4.96 ug/L	1.0	99	70	130		
trans-1,4-Dichloro-2-butene	4.48 ug/L	1.0	90	70	130		
Dichlorodifluoromethane	3.75 ug/L	1.0	75	70	130		
1,1-Dichloroethane	4.84 ug/L	1.0	97	70	130		
1,2-Dichloroethane	4.16 ug/L	1.0	83	70	130		
1,1-Dichloroethene	5.08 ug/L	1.0	102	70	130		
cis-1,2-Dichloroethene	4.56 ug/L	1.0	91	70	130		
trans-1,2-Dichloroethene	5.08 ug/L	1.0	102	70	130		
1,2-Dichloropropane	4.56 ug/L	1.0	91	70	130		
cis-1,3-Dichloropropene	4.92 ug/L	1.0	98	70	130		
trans-1,3-Dichloropropene	4.64 ug/L	1.0	93	70	130		
Ethylbenzene	5.04 ug/L	1.0	101	70	130		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R54232								
Sample ID: LCS060809A	54	Laboratory Control Sample		Run: 1SATURN_090608B				06/08/09 10:07		
2-Hexanone		46.0	ug/L	20	92	70	130			
Iodomethane		4.80	ug/L	1.0	96	70	130			
Methyl ethyl ketone		46.8	ug/L	20	94	70	130			
Methyl isobutyl ketone		48.4	ug/L	20	97	70	130			
Methylene chloride		4.84	ug/L	1.0	97	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		4.96	ug/L	1.0	99	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		4.68	ug/L	1.0	94	70	130			
1,1,2-Trichloroethane		4.68	ug/L	1.0	94	70	130			
Trichloroethene		4.80	ug/L	1.0	96	70	130			
Trichlorofluoromethane		4.68	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.96	ug/L	1.0	99	70	130			
Vinyl acetate		4.24	ug/L	1.0	85	70	130			
Vinyl chloride		4.40	ug/L	1.0	88	70	130			
m+p-Xylenes		10.0	ug/L	1.0	100	70	130			
o-Xylene		4.88	ug/L	1.0	98	70	130			
Xylenes, Total		14.9	ug/L	1.0	99	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Dibromofluoromethane				1.0	82	70	130			
Surr: p-Bromofluorobenzene				1.0	95	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: MB060809A	54	Method Blank		Run: 1SATURN_090608B				06/08/09 12:21		
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54232
Sample ID: MB060809A	54	Method Blank		Run: 1SATURN_090608B				06/08/09 12:21		
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090612A								
Sample ID: CCV061209A		54 Continuing Calibration Verification Standard								06/12/09 09:56
Acetone		48.4	ug/L	20	97	70	130			
Acrylonitrile		52.8	ug/L	20	106	70	130			
Benzene		4.12	ug/L	1.0	82	70	130			
Bromochloromethane		4.96	ug/L	1.0	99	70	130			
Bromodichloromethane		4.88	ug/L	1.0	98	70	130			
Bromoform		4.68	ug/L	1.0	94	70	130			
Bromomethane		5.04	ug/L	1.0	101	70	130			
Carbon disulfide		4.60	ug/L	1.0	92	70	130			
Carbon tetrachloride		4.16	ug/L	1.0	83	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		5.36	ug/L	1.0	107	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		4.48	ug/L	1.0	90	80	120			
Chloromethane		5.28	ug/L	1.0	106	70	130			
1,2-Dibromo-3-chloropropane		4.96	ug/L	1.0	99	70	130			
1,2-Dibromoethane		4.60	ug/L	1.0	92	70	130			
Dibromomethane		5.12	ug/L	1.0	102	70	130			
1,2-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		5.04	ug/L	1.0	101	70	130			
trans-1,4-Dichloro-2-butene		4.68	ug/L	1.0	94	70	130			
Dichlorodifluoromethane		5.16	ug/L	1.0	103	70	130			
1,1-Dichloroethane		4.20	ug/L	1.0	84	70	130			
1,2-Dichloroethane		4.44	ug/L	1.0	89	70	130			
1,1-Dichloroethene		4.16	ug/L	1.0	83	80	120			
cis-1,2-Dichloroethene		4.40	ug/L	1.0	88	70	130			
trans-1,2-Dichloroethene		4.08	ug/L	1.0	82	70	130			
1,2-Dichloropropane		4.68	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		5.08	ug/L	1.0	102	70	130			
trans-1,3-Dichloropropene		5.64	ug/L	1.0	113	70	130			
Ethylbenzene		5.16	ug/L	1.0	103	80	120			
2-Hexanone		46.8	ug/L	20	94	70	130			
Iodomethane		4.96	ug/L	1.0	99	70	130			
Methyl ethyl ketone		47.2	ug/L	20	94	70	130			
Methyl isobutyl ketone		44.4	ug/L	20	89	70	130			
Methylene chloride		4.20	ug/L	1.0	84	70	130			
Styrene		4.76	ug/L	1.0	95	70	130			
1,1,1,2-Tetrachloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2,2-Tetrachloroethane		4.92	ug/L	1.0	98	70	130			
Tetrachloroethene		5.44	ug/L	1.0	109	70	130			
Toluene		4.96	ug/L	1.0	99	80	120			
1,1,1-Trichloroethane		4.44	ug/L	1.0	89	70	130			
1,1,2-Trichloroethane		5.52	ug/L	1.0	110	70	130			
Trichloroethene		4.44	ug/L	1.0	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_090612A		
Sample ID: CCV061209A	<u>54</u> Continuing Calibration Verification Standard									06/12/09 09:56
Trichlorofluoromethane		5.60	ug/L	1.0	112	70	130			
1,2,3-Trichloropropane		4.88	ug/L	1.0	98	70	130			
Vinyl acetate		4.64	ug/L	1.0	93	70	130			
Vinyl chloride		5.04	ug/L	1.0	101	80	120			
m+p-Xylenes		9.92	ug/L	1.0	99	70	130			
o-Xylene		5.44	ug/L	1.0	109	70	130			
Xylenes, Total		15.4	ug/L	1.0	102	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	100	70	130			
Surr: Dibromofluoromethane				1.0	86	70	130			
Surr: p-Bromofluorobenzene				1.0	106	70	130			
Surr: Toluene-d8				1.0	105	70	130			
Method: SW8260B								Batch: R54234		
Sample ID: LCS061208B	<u>54</u> Laboratory Control Sample									06/12/09 11:14
Acetone		44.0	ug/L	20	88	70	130			
Acrylonitrile		47.2	ug/L	20	94	70	130			
Benzene		4.24	ug/L	1.0	85	70	130			
Bromochloromethane		4.44	ug/L	1.0	89	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		4.24	ug/L	1.0	85	70	130			
Bromomethane		4.08	ug/L	1.0	82	70	130			
Carbon disulfide		4.40	ug/L	1.0	88	70	130			
Carbon tetrachloride		4.24	ug/L	1.0	85	70	130			
Chlorobenzene		5.36	ug/L	1.0	107	70	130			
Chlorodibromomethane		5.24	ug/L	1.0	105	70	130			
Chloroethane		4.08	ug/L	1.0	82	70	130			
Chloroform		4.16	ug/L	1.0	83	70	130			
Chloromethane		4.52	ug/L	1.0	90	70	130			
1,2-Dibromo-3-chloropropane		4.64	ug/L	1.0	93	70	130			
1,2-Dibromoethane		4.52	ug/L	1.0	90	70	130			
Dibromomethane		4.56	ug/L	1.0	91	70	130			
1,2-Dichlorobenzene		4.64	ug/L	1.0	93	70	130			
1,4-Dichlorobenzene		4.72	ug/L	1.0	94	70	130			
trans-1,4-Dichloro-2-butene		4.72	ug/L	1.0	94	70	130			
Dichlorodifluoromethane		4.68	ug/L	1.0	94	70	130			
1,1-Dichloroethane		3.92	ug/L	1.0	78	70	130			
1,2-Dichloroethane		3.82	ug/L	1.0	76	70	130			
1,1-Dichloroethene		3.92	ug/L	1.0	78	70	130			
cis-1,2-Dichloroethene		4.04	ug/L	1.0	81	70	130			
trans-1,2-Dichloroethene		4.16	ug/L	1.0	83	70	130			
1,2-Dichloropropane		4.52	ug/L	1.0	90	70	130			
cis-1,3-Dichloropropene		4.84	ug/L	1.0	97	70	130			
trans-1,3-Dichloropropene		5.00	ug/L	1.0	100	70	130			
Ethylbenzene		5.28	ug/L	1.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R54234								
Sample ID: LCS061208B	54	Laboratory Control Sample				Run: 1SATURN_090612A			06/12/09 11:14	
2-Hexanone		44.4	ug/L	20	89	70	130			
Iodomethane		5.00	ug/L	1.0	100	70	130			
Methyl ethyl ketone		43.6	ug/L	20	87	70	130			
Methyl isobutyl ketone		41.6	ug/L	20	83	70	130			
Methylene chloride		3.88	ug/L	1.0	78	70	130			
Styrene		4.72	ug/L	1.0	94	70	130			
1,1,1,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
1,1,2,2-Tetrachloroethane		4.72	ug/L	1.0	94	70	130			
Tetrachloroethene		5.16	ug/L	1.0	103	70	130			
Toluene		4.64	ug/L	1.0	93	70	130			
1,1,1-Trichloroethane		4.36	ug/L	1.0	87	70	130			
1,1,2-Trichloroethane		4.96	ug/L	1.0	99	70	130			
Trichloroethene		4.72	ug/L	1.0	94	70	130			
Trichlorofluoromethane		4.72	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.60	ug/L	1.0	92	70	130			
Vinyl acetate		4.12	ug/L	1.0	82	70	130			
Vinyl chloride		4.32	ug/L	1.0	86	70	130			
m+p-Xylenes		10.2	ug/L	1.0	102	70	130			
o-Xylene		5.36	ug/L	1.0	107	70	130			
Xylenes, Total		15.5	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	98	70	130			
Sample ID: MBLK061209A	54	Method Blank				Run: 1SATURN_090612A			06/12/09 12:57	
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: MBLK061209A	54	Method Blank		Run: 1SATURN_090612A				06/12/09 12:57		
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	94	70	130			
Surr: Dibromofluoromethane				1.0	86	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	95	70	130			
Sample ID: H09060048-001EMS	54	Sample Matrix Spike		Run: 1SATURN_090612A				06/13/09 17:16		
Acetone		88.0	ug/L	40	88	70	130			
Acrylonitrile		95.2	ug/L	40	95	70	130			
Benzene		8.24	ug/L	2.0	82	70	130			
Bromochloromethane		8.72	ug/L	2.0	87	70	130			
Bromodichloromethane		9.28	ug/L	2.0	93	70	130			
Bromoform		8.80	ug/L	2.0	88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R54234								
Sample ID: H09060048-001EMS	54	Sample Matrix Spike		Run: 1SATURN_090612A		06/13/09 17:16				
Bromomethane		9.76	ug/L	2.0	98	70	130			
Carbon disulfide		8.96	ug/L	2.0	90	70	130			
Carbon tetrachloride		8.08	ug/L	2.0	81	70	130			
Chlorobenzene		10.0	ug/L	2.0	100	70	130			
Chlorodibromomethane		9.68	ug/L	2.0	97	70	130			
Chloroethane		9.36	ug/L	2.0	94	70	130			
Chloroform		7.87	ug/L	2.0	79	70	130			
Chloromethane		10.7	ug/L	2.0	107	70	130			
1,2-Dibromo-3-chloropropane		9.04	ug/L	2.0	90	70	130			
1,2-Dibromoethane		8.64	ug/L	2.0	86	70	130			
Dibromomethane		10.1	ug/L	2.0	101	70	130			
1,2-Dichlorobenzene		9.68	ug/L	2.0	97	70	130			
1,4-Dichlorobenzene		10.5	ug/L	2.0	105	70	130			
trans-1,4-Dichloro-2-butene		9.12	ug/L	2.0	91	70	130			
Dichlorodifluoromethane		11.4	ug/L	2.0	114	70	130			
1,1-Dichloroethane		8.32	ug/L	2.0	83	70	130			
1,2-Dichloroethane		8.24	ug/L	2.0	82	70	130			
1,1-Dichloroethene		8.16	ug/L	2.0	82	70	130			
cis-1,2-Dichloroethene		8.88	ug/L	2.0	89	70	130			
trans-1,2-Dichloroethene		8.24	ug/L	2.0	82	70	130			
1,2-Dichloropropane		8.88	ug/L	2.0	89	70	130			
cis-1,3-Dichloropropene		10.2	ug/L	2.0	102	70	130			
trans-1,3-Dichloropropene		9.84	ug/L	2.0	98	70	130			
Ethylbenzene		11.0	ug/L	2.0	110	70	130			
2-Hexanone		91.2	ug/L	40	91	70	130			
Iodomethane		9.44	ug/L	2.0	94	70	130			
Methyl ethyl ketone		90.4	ug/L	40	90	70	130			
Methyl isobutyl ketone		90.4	ug/L	40	90	70	130			
Methylene chloride		7.47	ug/L	2.0	75	70	130			
Styrene		9.68	ug/L	2.0	97	70	130			
1,1,1,2-Tetrachloroethane		10.6	ug/L	2.0	106	70	130			
1,1,2,2-Tetrachloroethane		10.1	ug/L	2.0	101	70	130			
Tetrachloroethene		10.9	ug/L	2.0	109	70	130			
Toluene		10.1	ug/L	2.0	101	70	130			
1,1,1-Trichloroethane		8.48	ug/L	2.0	85	70	130			
1,1,2-Trichloroethane		10.6	ug/L	2.0	106	70	130			
Trichloroethene		9.76	ug/L	2.0	98	70	130			
Trichlorofluoromethane		10.9	ug/L	2.0	109	70	130			
1,2,3-Trichloropropane		9.92	ug/L	2.0	99	70	130			
Vinyl acetate		8.00	ug/L	2.0	80	70	130			
Vinyl chloride		10.1	ug/L	2.0	101	70	130			
m+p-Xylenes		19.8	ug/L	2.0	99	70	130			
o-Xylene		10.6	ug/L	2.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 06/24/09

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: H09060048-001EMS	54	Sample Matrix Spike		Run: 1SATURN_090612A				06/13/09 17:16		
Xylenes, Total		30.4	ug/L	2.0	101	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	98	70	130			
Surr: Dibromofluoromethane				2.0	90	70	130			
Surr: p-Bromofluorobenzene				2.0	109	70	130			
Surr: Toluene-d8				2.0	117	70	130			
Sample ID: H09060048-001EMSD	54	Sample Matrix Spike Duplicate		Run: 1SATURN_090612A				06/13/09 17:46		
Acetone		88.0	ug/L	40	88	70	130	0	20	
Acrylonitrile		92.8	ug/L	40	93	70	130	2.6	20	
Benzene		8.64	ug/L	2.0	86	70	130	4.7	20	
Bromochloromethane		9.44	ug/L	2.0	94	70	130	7.9	20	
Bromodichloromethane		10.5	ug/L	2.0	105	70	130	12	20	
Bromoform		10.2	ug/L	2.0	102	70	130	14	20	
Bromomethane		8.88	ug/L	2.0	89	70	130	9.4	20	
Carbon disulfide		9.20	ug/L	2.0	92	70	130	2.6	20	
Carbon tetrachloride		8.64	ug/L	2.0	86	70	130	6.7	20	
Chlorobenzene		11.3	ug/L	2.0	113	70	130	12	20	
Chlorodibromomethane		11.0	ug/L	2.0	110	70	130	13	20	
Chloroethane		9.52	ug/L	2.0	95	70	130	1.7	20	
Chloroform		8.80	ug/L	2.0	88	70	130	11	20	
Chloromethane		10.6	ug/L	2.0	106	70	130	0.7	20	
1,2-Dibromo-3-chloropropane		10.1	ug/L	2.0	101	70	130	11	20	
1,2-Dibromoethane		9.52	ug/L	2.0	95	70	130	9.7	20	
Dibromomethane		10.6	ug/L	2.0	106	70	130	4.7	20	
1,2-Dichlorobenzene		10.9	ug/L	2.0	109	70	130	12	20	
1,4-Dichlorobenzene		10.6	ug/L	2.0	106	70	130	0.8	20	
trans-1,4-Dichloro-2-butene		10.2	ug/L	2.0	102	70	130	12	20	
Dichlorodifluoromethane		11.8	ug/L	2.0	118	70	130	2.8	20	
1,1-Dichloroethane		8.40	ug/L	2.0	84	70	130	1	20	
1,2-Dichloroethane		8.80	ug/L	2.0	88	70	130	6.6	20	
1,1-Dichloroethene		8.56	ug/L	2.0	86	70	130	4.8	20	
cis-1,2-Dichloroethene		8.96	ug/L	2.0	90	70	130	0.9	20	
trans-1,2-Dichloroethene		8.88	ug/L	2.0	89	70	130	7.5	20	
1,2-Dichloropropane		9.92	ug/L	2.0	99	70	130	11	20	
cis-1,3-Dichloropropene		10.8	ug/L	2.0	108	70	130	5.3	20	
trans-1,3-Dichloropropene		11.0	ug/L	2.0	110	70	130	11	20	
Ethylbenzene		11.7	ug/L	2.0	117	70	130	5.6	20	
2-Hexanone		91.2	ug/L	40	91	70	130	0	20	
Iodomethane		10.2	ug/L	2.0	102	70	130	8.1	20	
Methyl ethyl ketone		86.4	ug/L	40	86	70	130	4.5	20	
Methyl isobutyl ketone		96.8	ug/L	40	97	70	130	6.8	20	
Methylene chloride		8.08	ug/L	2.0	81	70	130	7.8	20	
Styrene		9.76	ug/L	2.0	98	70	130	0.8	20	
1,1,1,2-Tetrachloroethane		10.9	ug/L	2.0	109	70	130	3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: H09060048-001EMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_090612A 06/13/09 17:46
1,1,2,2-Tetrachloroethane		10.7	ug/L	2.0	107	70	130	6.2	20	
Tetrachloroethene		11.0	ug/L	2.0	110	70	130	1.5	20	
Toluene		10.8	ug/L	2.0	108	70	130	6.9	20	
1,1,1-Trichloroethane		8.96	ug/L	2.0	90	70	130	5.5	20	
1,1,2-Trichloroethane		11.0	ug/L	2.0	110	70	130	3	20	
Trichloroethene		10.1	ug/L	2.0	101	70	130	3.2	20	
Trichlorofluoromethane		10.7	ug/L	2.0	107	70	130	1.5	20	
1,2,3-Trichloropropane		9.28	ug/L	2.0	93	70	130	6.7	20	
Vinyl acetate		8.72	ug/L	2.0	87	70	130	8.6	20	
Vinyl chloride		10.0	ug/L	2.0	100	70	130	0.8	20	
m+p-Xylenes		23.3	ug/L	2.0	116	70	130	16	20	
o-Xylene		11.1	ug/L	2.0	111	70	130	5.2	20	
Xylenes, Total		34.4	ug/L	2.0	115	70	130	12	20	
Surr: 1,2-Dichloroethane-d4				2.0	98	70	130	0	20	
Surr: Dibromofluoromethane				2.0	87	70	130	0	20	
Surr: p-Bromofluorobenzene				2.0	115	70	130	0	20	
Surr: Toluene-d8				2.0	118	70	130	0	20	
Method: SW8260B										Batch: R54237
Sample ID: LCS061309A 5 Laboratory Control Sample										Run: 1SATURN_090613B 06/13/09 13:17
cis-1,2-Dichloroethene		4.40	ug/L	1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	77	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	91	70	130			
Surr: Toluene-d8				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Sample ID: MBLK061309B 5 Method Blank										Run: 1SATURN_090613B 06/13/09 15:19
cis-1,2-Dichloroethene		ND	ug/L	1.0						
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Toluene-d8				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54239
Sample ID: LCS060809A	54	Laboratory Control Sample				Run: 1SATURN_090608D			06/08/09 10:07	
Benzene		4.40	ug/L	1.0	88	70	130			
Bromobenzene		4.56	ug/L	1.0	91	70	130			
Bromochloromethane		4.80	ug/L	1.0	96	70	130			
Bromodichloromethane		4.72	ug/L	1.0	94	70	130			
Bromoform		4.24	ug/L	1.0	85	70	130			
Bromomethane		4.20	ug/L	1.0	84	70	130			
Carbon tetrachloride		4.68	ug/L	1.0	94	70	130			
Chlorobenzene		5.00	ug/L	1.0	100	70	130			
Chlorodibromomethane		4.68	ug/L	1.0	94	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
2-Chloroethyl vinyl ether		4.88	ug/L	1.0	98	70	130			
Chloroform		4.64	ug/L	1.0	93	70	130			
Chloromethane		4.24	ug/L	1.0	85	70	130			
1,2-Dibromoethane		4.40	ug/L	1.0	88	70	130			
2-Chlorotoluene		5.20	ug/L	1.0	104	70	130			
4-Chlorotoluene		4.84	ug/L	1.0	97	70	130			
Dibromomethane		4.76	ug/L	1.0	95	70	130			
1,2-Dichlorobenzene		5.08	ug/L	1.0	102	70	130			
1,3-Dichlorobenzene		4.92	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
Dichlorodifluoromethane		3.75	ug/L	1.0	75	70	130			
1,1-Dichloroethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichloroethane		4.16	ug/L	1.0	83	70	130			
1,1-Dichloroethene		5.08	ug/L	1.0	102	70	130			
cis-1,2-Dichloroethene		4.56	ug/L	1.0	91	70	130			
trans-1,2-Dichloroethene		5.08	ug/L	1.0	102	70	130			
1,2-Dichloropropane		4.56	ug/L	1.0	91	70	130			
1,3-Dichloropropane		4.16	ug/L	1.0	83	70	130			
2,2-Dichloropropane		4.96	ug/L	1.0	99	70	130			
1,1-Dichloropropene		4.64	ug/L	1.0	93	70	130			
cis-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		4.64	ug/L	1.0	93	70	130			
Ethylbenzene		5.04	ug/L	1.0	101	70	130			
Methyl ethyl ketone		46.8	ug/L	20	94	70	130			
Methyl tert-butyl ether (MTBE)		4.72	ug/L	1.0	94	70	130			
Methylene chloride		4.84	ug/L	1.0	97	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		4.96	ug/L	1.0	99	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		4.68	ug/L	1.0	94	70	130			
1,1,2-Trichloroethane		4.68	ug/L	1.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Batch: R54239										
Sample ID: LCS060809A	54	Laboratory Control Sample			Run: 1SATURN_090608D			06/08/09 10:07		
Trichloroethene		4.80	ug/L	1.0	96	70	130			
Trichlorofluoromethane		4.68	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.96	ug/L	1.0	99	70	130			
Vinyl chloride		4.40	ug/L	1.0	88	70	130			
m+p-Xylenes		10.0	ug/L	1.0	100	70	130			
o-Xylene		4.88	ug/L	1.0	98	70	130			
Xylenes, Total		14.9	ug/L	1.0	99	70	130			
Surr: Dibromofluoromethane				1.0	82	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Surr: p-Bromofluorobenzene				1.0	95	70	130			
Sample ID: MB060809A										
54	Method Blank			Run: 1SATURN_090608D			06/08/09 12:21			
Benzene		ND	ug/L	1.0						
Bromobenzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
2-Chloroethyl vinyl ether		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
2-Chlorotoluene		ND	ug/L	1.0						
4-Chlorotoluene		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,3-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
1,3-Dichloropropane		ND	ug/L	1.0						
2,2-Dichloropropane		ND	ug/L	1.0						
1,1-Dichloropropene		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: MB060809A										
	54	Method Blank								
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl tert-butyl ether (MTBE)		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Toluene-d8				1.0	100	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

 Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: <u>MT DEQ Solid Waste Section</u>	Project Name, PWS, Permit, Etc. <u>Mission M Landfill</u>	Sample Origin State: <u>MT</u>	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: <u>PO Box 200901, Helena, MT 59620</u>	Contact Name: <u>Martin Van Dant</u>	Phone/Fax: <u>406-444-2802</u> <u>or 614-291-8216</u>	Email: <u>mdvan1001@yahoo.com</u>
Invoice Address: <u>same</u>	Invoice Contact & Phone: <u>same</u>	Purchase Order:	Quote/Bottle Order: <u>4127</u>

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

- | | |
|---|---|
| ☐ DW | ☐ A2LA |
| ☐ GSA | ☐ EDD/EDT(Electronic Data) |
| ☐ POTW/WWTP | Format: _____ |
| ☒ State: <u>Solid Waste</u> | ☐ LEVEL IV |
| ☐ Other: _____ | ☐ NELAC |

Number of Containers Sample Type: A W S V B O Air Water Soils Solids Vegetation Bioassay Other	ANALYSIS REQUESTED									
	Dissolved Metals	Nitrate/Nitrite COD	VOCs - Table 1	Cyanide	Cl ⁻ SO ₄ ²⁻ H ₂ Sulfide	VOCs - Short List	Total Metals	SEE ATTACHED	Normal Turnaround (TAT)	

RUSH	Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page	Shipped by: <u>hand</u>
	Comments: <u>Total & Dissolved Metals are Table 1 Landfill list</u>	Cooler ID(s):
	Temp blank 27 th	Receipt Temp <u>2.2</u> °C
		On Ice: ☒ Yes ☐ No
		Custody Seal Y ☒
		Bottles/ Coolers B C
		Intact Y ☒
		Signature Match Y ☒

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX																	
1 M-M-HW	6-1-09	1420	7-W	X	X	X	X	X												
2 M-M-MW-DW	6-1-09	1555	7-W	X	X	X	X	X												
3 M-M-MW-DW-D	6-1-09	1605	7-W	X	X	X	X	X												
4 M-M-LS-01	6-1-09	1700	6-W		X	X		X		X										
5 M-M-MW-10R	6-2-09	1300	7-W	X	X	X	X	X												
6 M-M-MW-8R	6-2-09	1450	7-W	X	X	X	X	X												
7 M-M-LS-02	6-2-09	1755	6-W		X	X		X		X										
8 M-M-MW-S	6-3-09	750	7-W	X	X	X	X	X												
9 M-M-Pond	6-4-09	1805	3-W							X										
10 M-M-DW-VOL	6-5-09	830	3-W							X										

Custody Record MUST be Signed	Relinquished by (print): <u>Martin Van Dant</u>	Date/Time: <u>6-5-09 1205</u>	Signature: <u>[Signature]</u>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal: Return to Client: _____ Lab Disposal: <u>X</u>			Received by Laboratory: <u>Roxanne Tunns</u>	Date/Time: <u>6-5-09 12:00</u>	Signature: <u>[Signature]</u>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

 Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

APPENDIX D: LABORATORY ANALYTICAL REPORT





ANALYTICAL SUMMARY REPORT

June 29, 2009

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09060101

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 11 samples for MT DEQ on 6/5/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09060101-001	Mr M-HW	06/01/09 14:20	06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-002	Mr M-MW-DW <i>MW-OW</i>	06/01/09 15:55	06/05/09	Aqueous	Same As Above
H09060101-003	Mr M-MW-DW-D <i>MW-OW</i>	06/01/09 16:05	06/05/09	Aqueous	Same As Above
H09060101-004	Mr M-LS-01 <i>DLP</i>	06/01/09 17:00	06/05/09	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Conductivity Mercury, Total Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH Metals Digestion by EPA 200.2 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-005	Mr M-MW-10R	06/02/09 13:00	06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-006	MrM-MW-9R	06/02/09 14:50	06/05/09	Aqueous	Same As Above
H09060101-007	MrM-LS-02	06/02/09 17:55	06/05/09	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Conductivity Mercury, Total Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH Metals Digestion by EPA 200.2 8260-Volatile Organic Comp, 40 CFR Part 258 App I



ANALYTICAL SUMMARY REPORT

H09060101-008 MrM-MW-9 <i>MW-5</i>	06/03/09 7:50 06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-009 MrM-Pond <i>MVN</i>	06/04/09 18:05 06/05/09	Aqueous	8260-Volatile Organic Compounds-Short List
H09060101-010 MrM-DW-VOC <i>MW-DW-VOC</i>	06/05/09 8:30 06/05/09	Aqueous	Same As Above
H09060101-011 Trip Blank	06/01/09 14:20 06/05/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: *Amanda Sturges*



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-001
Client Sample ID: Mr M-HW

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	06/05/09 16:36 / hm
Conductivity	773	umhos/cm		1		A2510 B	06/08/09 13:45 / sid
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:37 / eli-b
Chloride	10	mg/L		1		E300.0	06/17/09 02:20 / hm
Sulfate	37	mg/L		1		E300.0	06/17/09 02:20 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.17	mg/L		0.05		E353.2	06/09/09 17:02 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:22 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:22 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:22 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	06/11/09 19:46 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:22 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 19:46 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 19:46 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 19:46 / eli-b
Selenium	0.005	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 19:46 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:22 / eli-b
Zinc	0.02	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

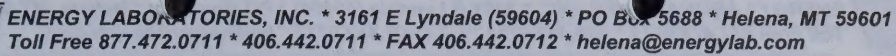
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-001
Client Sample ID: Mr M-HW

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	06/08/09 13:56 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
DateReceived: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	84.0	%REC		70-130		SW8260B	06/08/09 13:56 / abb
Surr: p-Bromofluorobenzene	97.0	%REC		70-130		SW8260B	06/08/09 13:56 / abb
Surr: Toluene-d8	100	%REC		70-130		SW8260B	06/08/09 13:56 / abb

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-002
Client Sample ID: Mr M-MW-DW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
Date Received: 06/05/09
Matrix: Aqueous

MW-DW

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.6	s.u.		0.1		A4500-H B	06/05/09 16:37 / hm
Conductivity	654	umhos/cm		1		A2510 B	06/08/09 13:46 / slb
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:39 / eli-b
Chloride	51	mg/L		1		E300.0	06/17/09 03:09 / hm
Sulfate	ND	mg/L		1		E300.0	06/17/09 03:09 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	9	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/09/09 17:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:29 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:29 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:29 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 19:50 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Iron	0.47	mg/L		0.03		E200.7	06/11/09 18:29 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 19:50 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 19:50 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 19:50 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 19:50 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:29 / eli-b
Zinc	0.48	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Benzene	0.61	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-002
Client Sample ID: Mr M-MW-DW

MW-OW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Ethylbenzene	0.39	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Styrene	0.61	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Trichloroethene	0.16	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Vinyl chloride	0.48	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Surr: 1,2-Dichloroethane-d4	101	%REC		70-130		SW8260B	06/08/09 14:26 / abb

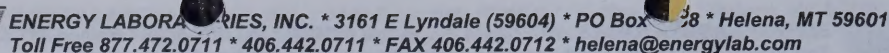
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



MW-OW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
DateReceived: 06/05/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-003
Client Sample ID: Mr M-MW-DW-D

MW-QW-Dup

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	06/05/09 16:38 / hm
Conductivity	649	umhos/cm		1		A2510 B	06/08/09 13:47 / sid
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:41 / eli-b
Chloride	51	mg/L		1		E300.0	06/17/09 03:26 / hm
Sulfate	ND	mg/L		1		E300.0	06/17/09 03:26 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	8	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/09/09 17:06 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:33 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:33 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:33 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:10 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Iron	0.47	mg/L		0.03		E200.7	06/11/09 18:33 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:10 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:10 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:10 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:10 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:33 / eli-b
Zinc	0.48	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Benzene	0.67	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-003
Client Sample ID: Mr M-MW-DW-D

MW-DW-D

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Ethylbenzene	0.30	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Styrene	0.55	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Trichloroethene	0.16	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Vinyl chloride	0.46	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Surr: 1,2-Dichloroethane-d4	106	%REC		70-130		SW8260B	06/08/09 14:56 / abb

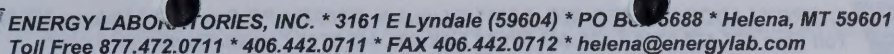
Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



MW-OW-D

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
DateReceived: 06/05/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	06/05/09 16:40 / hm
Conductivity	1020	umhos/cm		1		A2510 B	06/08/09 13:49 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:42 / eli-b
Chloride	23	mg/L		1		E300.0	06/17/09 03:59 / hm
Sulfate	82	mg/L		1		E300.0	06/17/09 03:59 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.42	mg/L		0.05		E353.2	06/09/09 17:14 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:37 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:37 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:37 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:14 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:37 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:14 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:14 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:14 / eli-b
Selenium	0.011	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:14 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:37 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

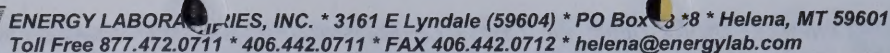
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	06/12/09 16:23 / abb

Report: RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
DateReceived: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	86.0	%REC		70-130		SW8260B	06/12/09 16:23 / abb
Surr: p-Bromofluorobenzene	109	%REC		70-130		SW8260B	06/12/09 16:23 / abb
Surr: Toluene-d8	97.0	%REC		70-130		SW8260B	06/12/09 16:23 / abb



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

Report Date: 06/24/09
Collection Date: 06/02/09 14:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	06/05/09 16:42 / hm
Conductivity	952	umhos/cm		1		A2510 B	06/08/09 13:50 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 12:39 / eli-b
Chloride	24	mg/L		1		E300.0	06/17/09 04:15 / hm
Sulfate	75	mg/L		1		E300.0	06/17/09 04:15 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	7	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	3.47	mg/L		0.05		E353.2	06/09/09 17:16 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:41 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Barium	0.1	mg/L		0.1		E200.7	06/11/09 18:41 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:41 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	06/11/09 20:18 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:41 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:18 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:18 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:18 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:18 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:41 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb

Report: RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

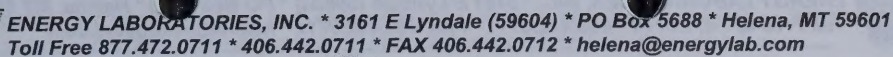
Report Date: 06/24/09
Collection Date: 06/02/09 14:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
cis-1,2-Dichloroethene	7.8	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Tetrachloroethene	1.2	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Trichloroethene	0.42	ug/L	J	1.0		SW8260B	06/12/09 16:52 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	06/12/09 16:52 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

Report Date: 06/24/09
Collection Date: 06/02/09 14:50
DateReceived: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	84.0	%REC		70-130		SW8260B	06/12/09 16:52 / abb
Surr: p-Bromofluorobenzene	100	%REC		70-130		SW8260B	06/12/09 16:52 / abb
Surr: Toluene-d8	103	%REC		70-130		SW8260B	06/12/09 16:52 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-008
Client Sample ID: MrM-MW-9

MW-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.6	s.u.		0.1		A4500-H B	06/05/09 16:47 / hm
Conductivity	1020	umhos/cm		1		A2510 B	06/08/09 13:52 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 13:16 / eli-b
Chloride	14	mg/L		1		E300.0	06/17/09 04:48 / hm
Sulfate	55	mg/L		1		E300.0	06/17/09 04:48 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	7	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	2.12	mg/L		0.05		E353.2	06/09/09 17:20 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:44 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Barium	0.1	mg/L		0.1		E200.7	06/11/09 18:44 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:44 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:22 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:44 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:22 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:22 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:22 / eli-b
Selenium	0.111	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:22 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:44 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-008
Client Sample ID: MrM-MW-9

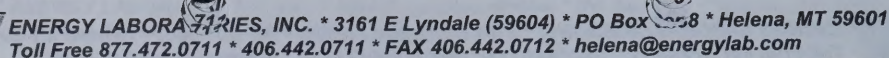
MW-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Surr: 1,2-Dichloroethane-d4	105	%REC		70-130		SW8260B	06/08/09 15:55 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



MW-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
DateReceived: 06/05/09
Matrix: Aqueous

Report	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
Definitions:	QCL - Quality control limit.	ND - Not detected at the reporting limit.

APPENDIX E: HISTORICAL GROUNDWATER QUALITY

Date _____

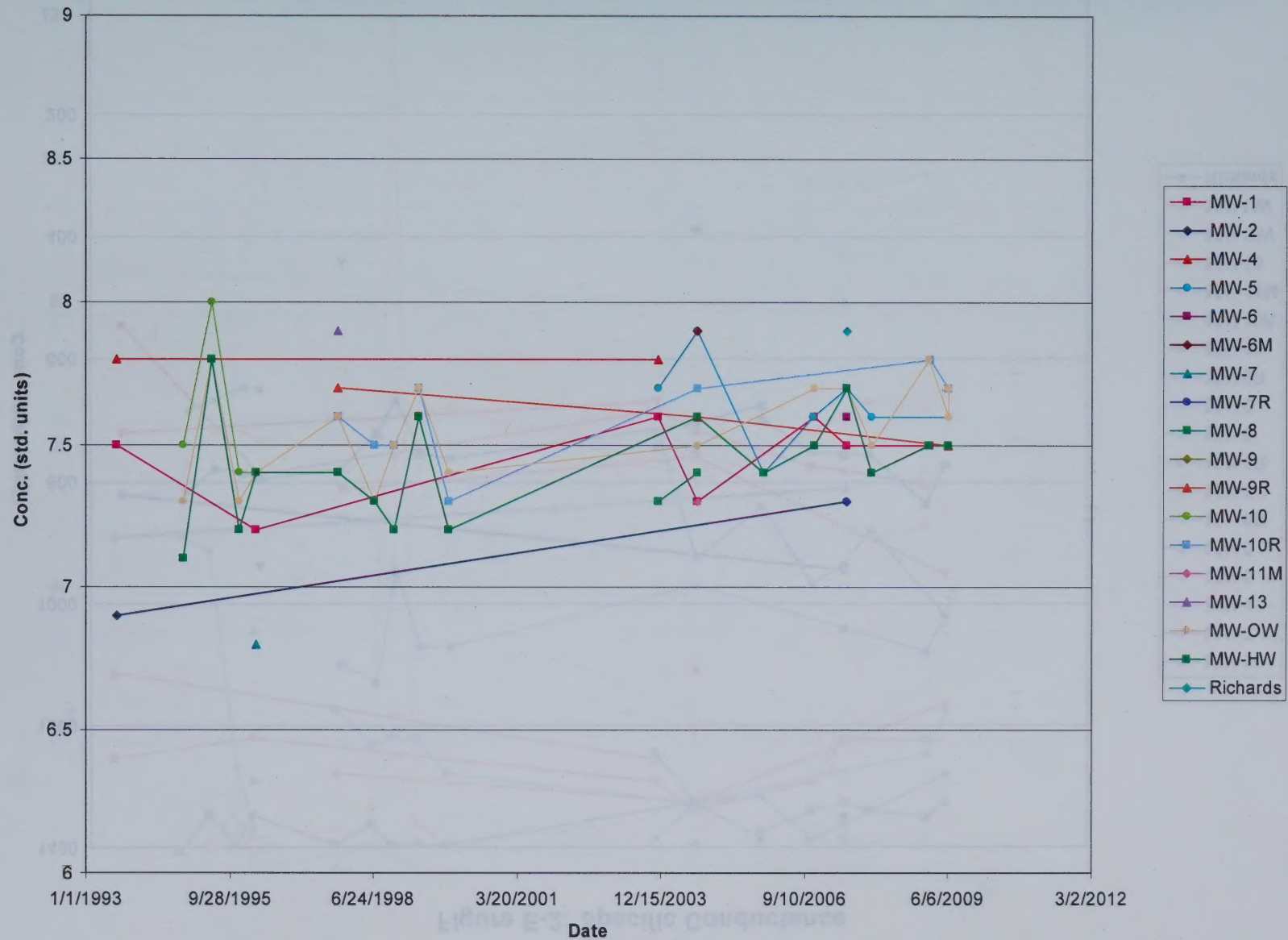


Figure E-2: Specific Conductance

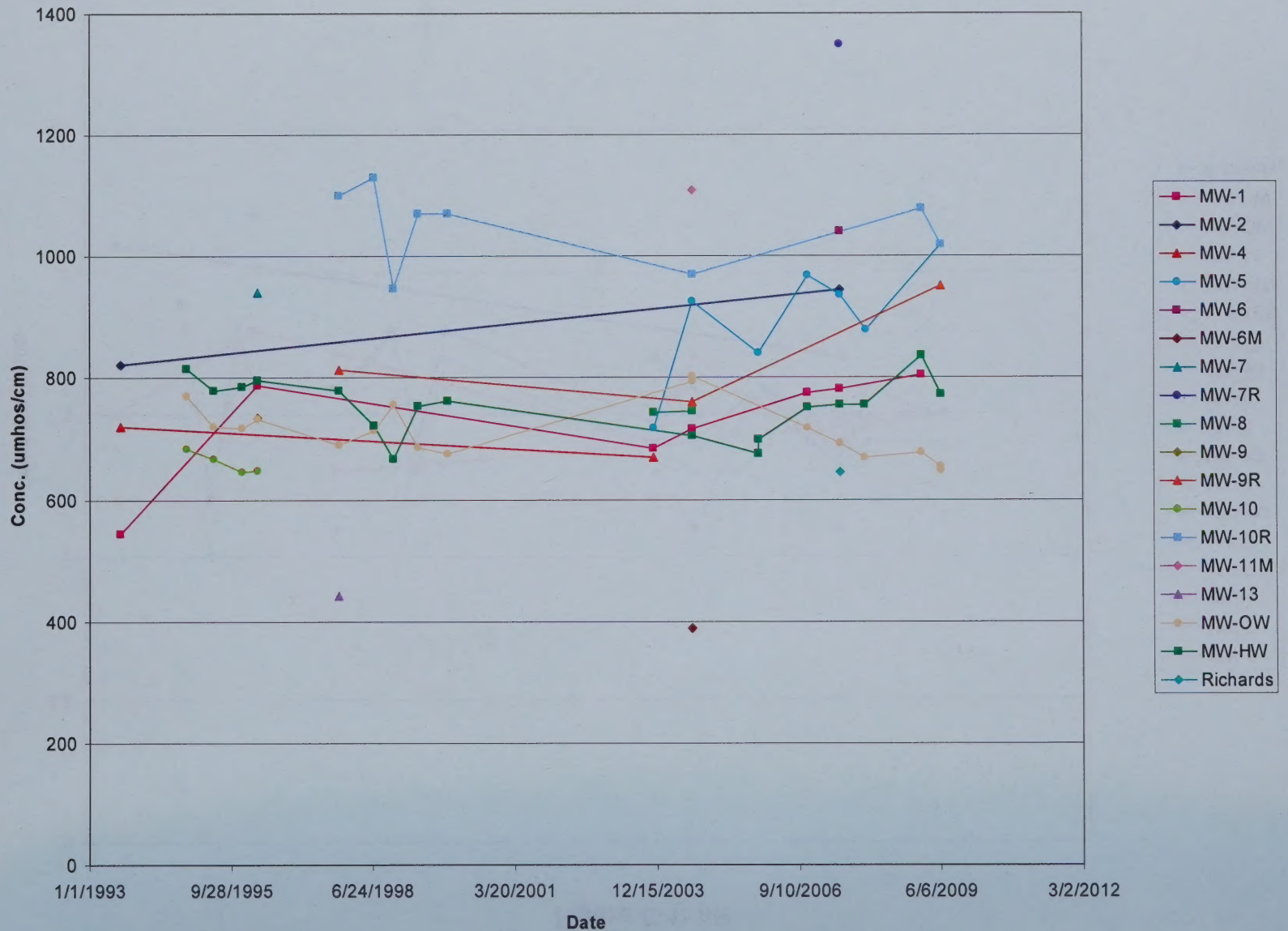


Figure E-3: Chloride

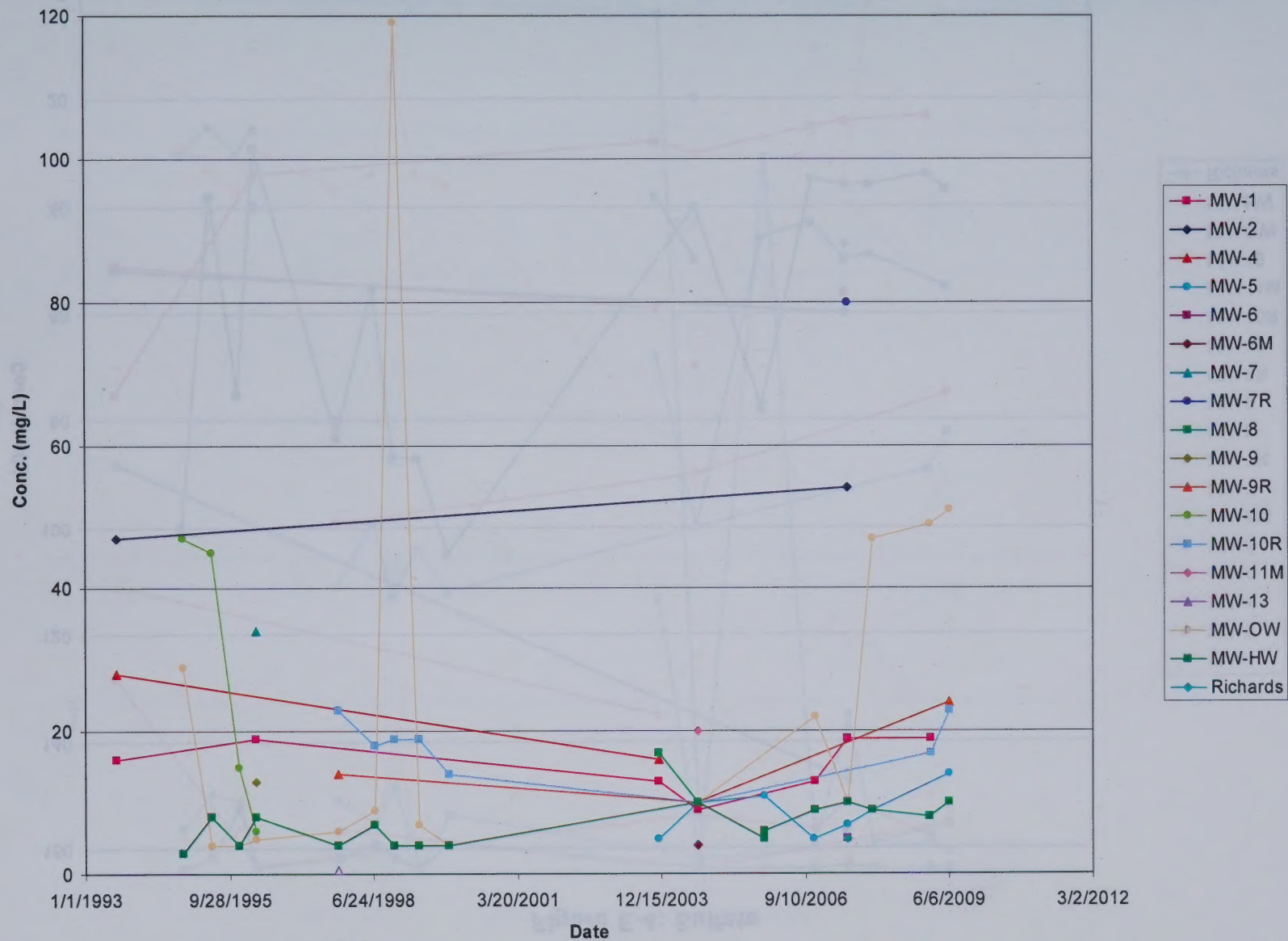


Figure E-4: Sulfate



Figure E-5: Chemical Oxygen Demand

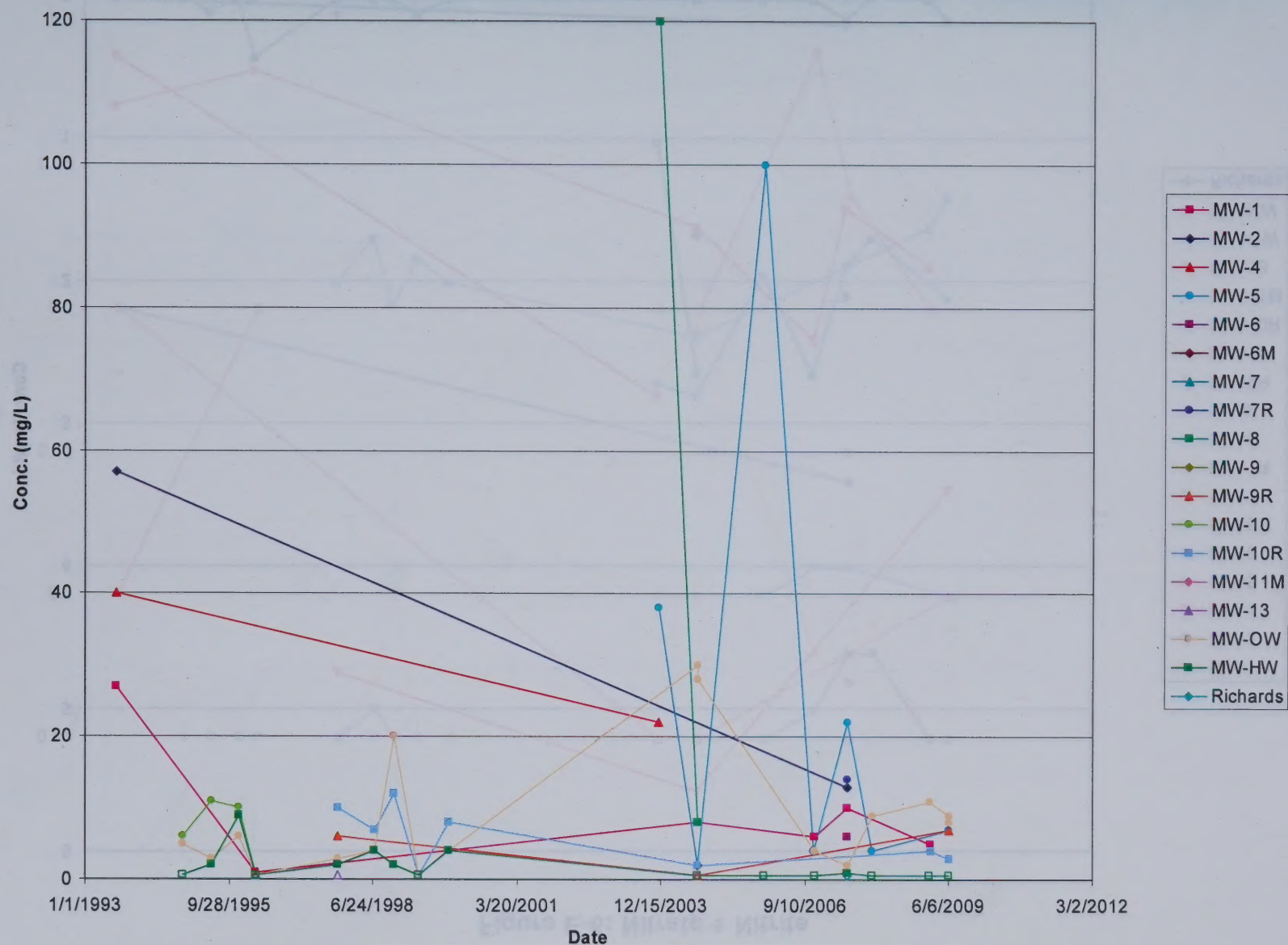


Figure E-6: Nitrate + Nitrite

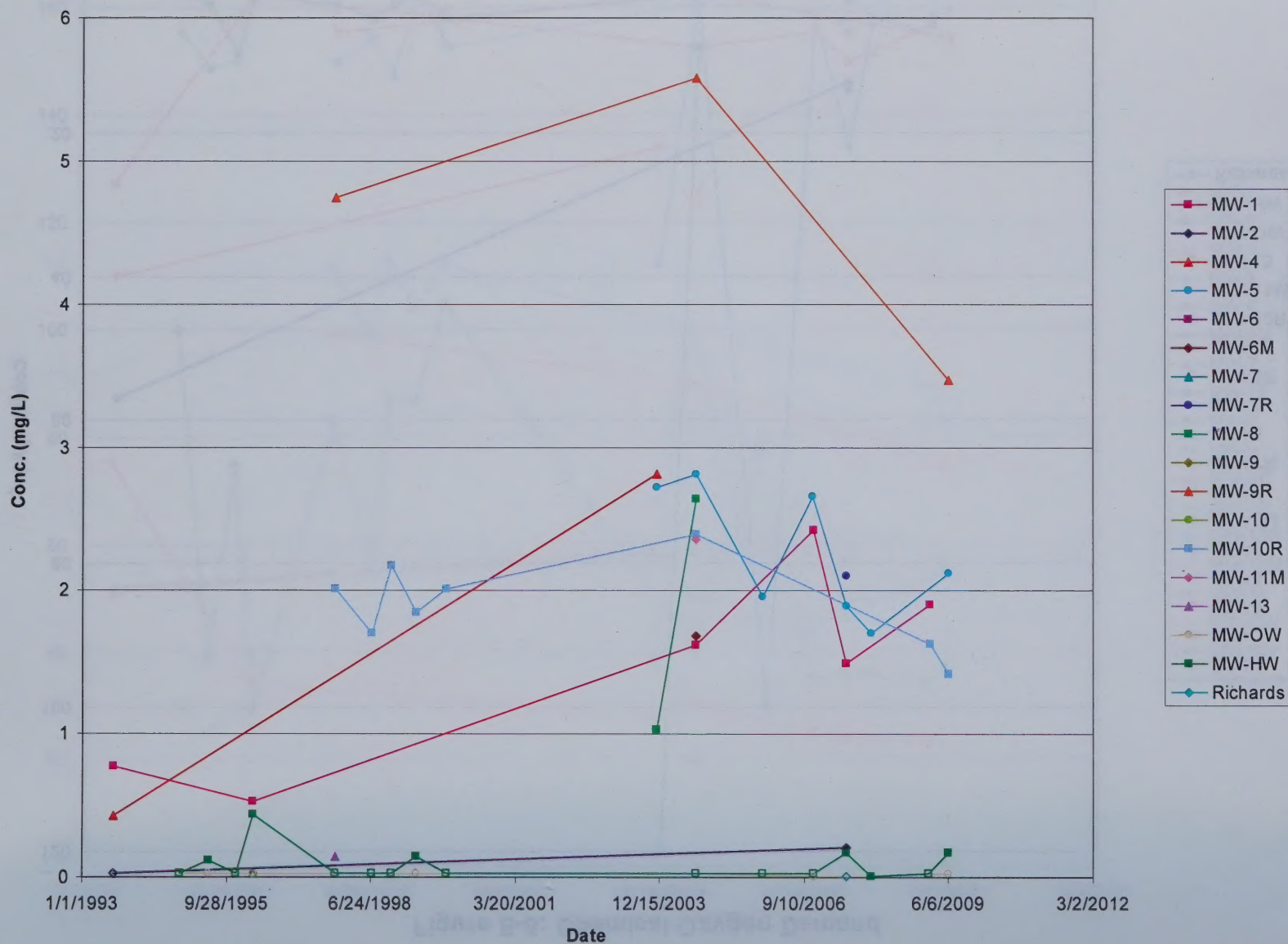




Figure E-8: Cadmium

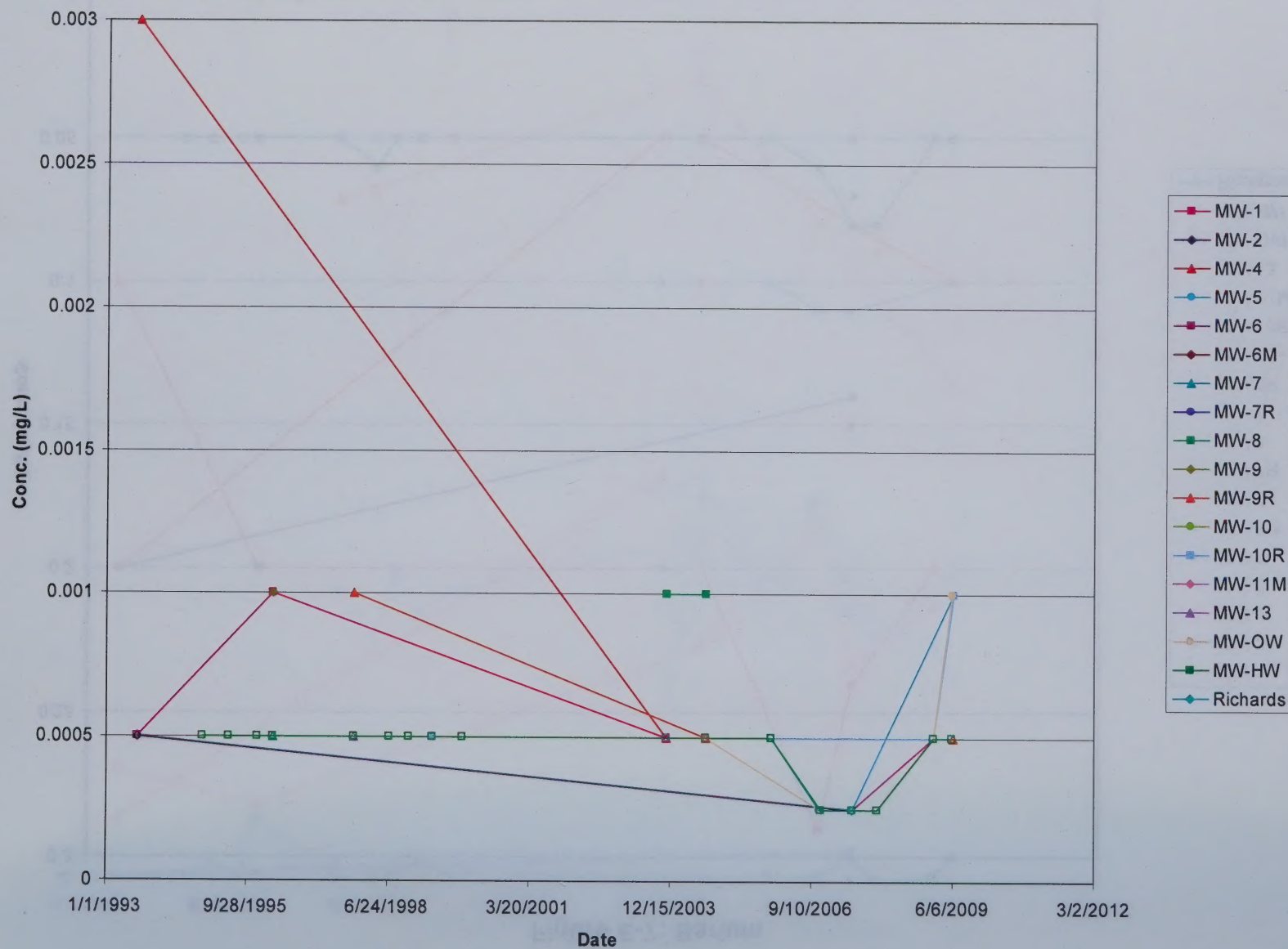


Figure E-3: Iron

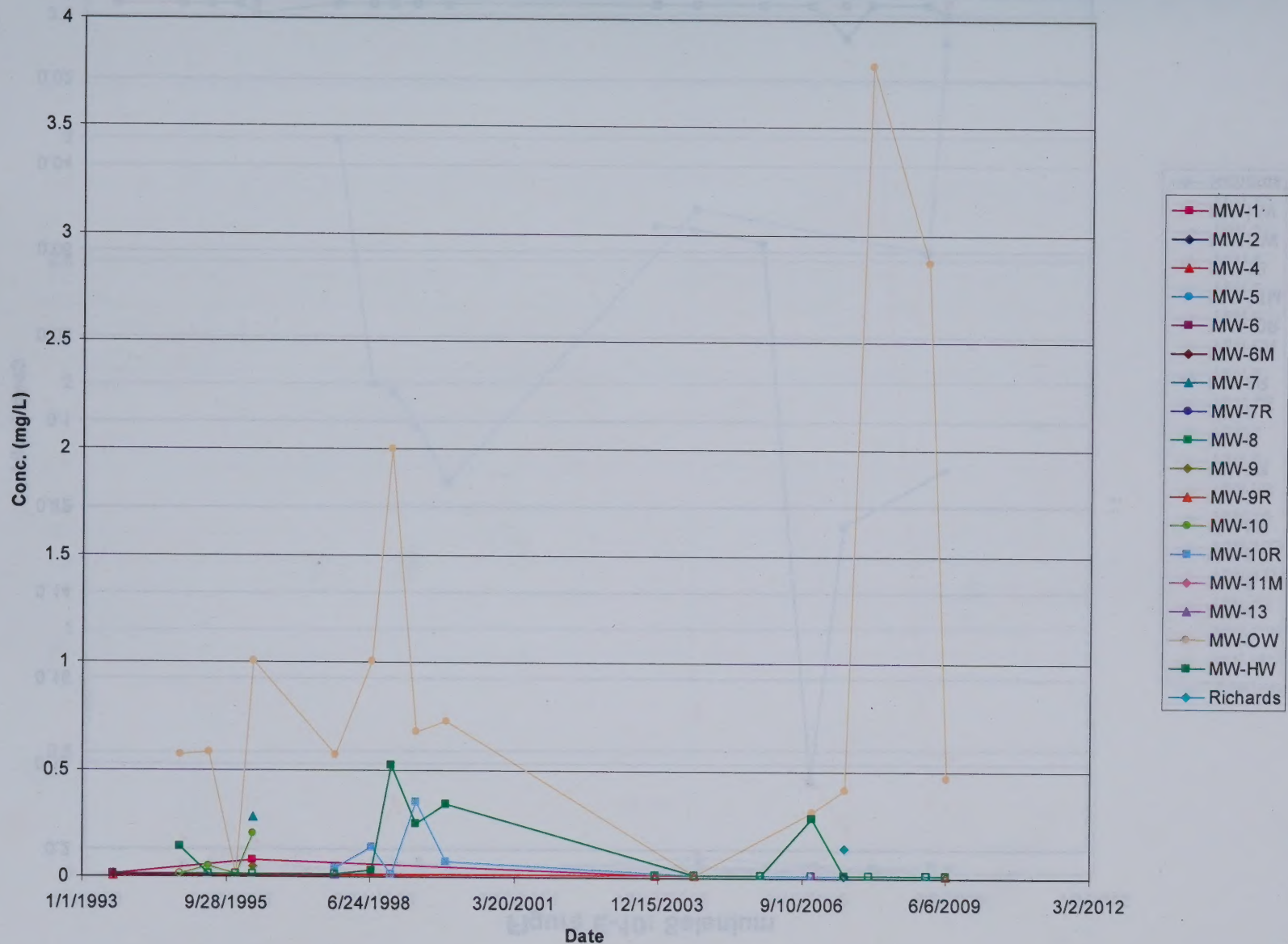


Figure E-10: Selenium

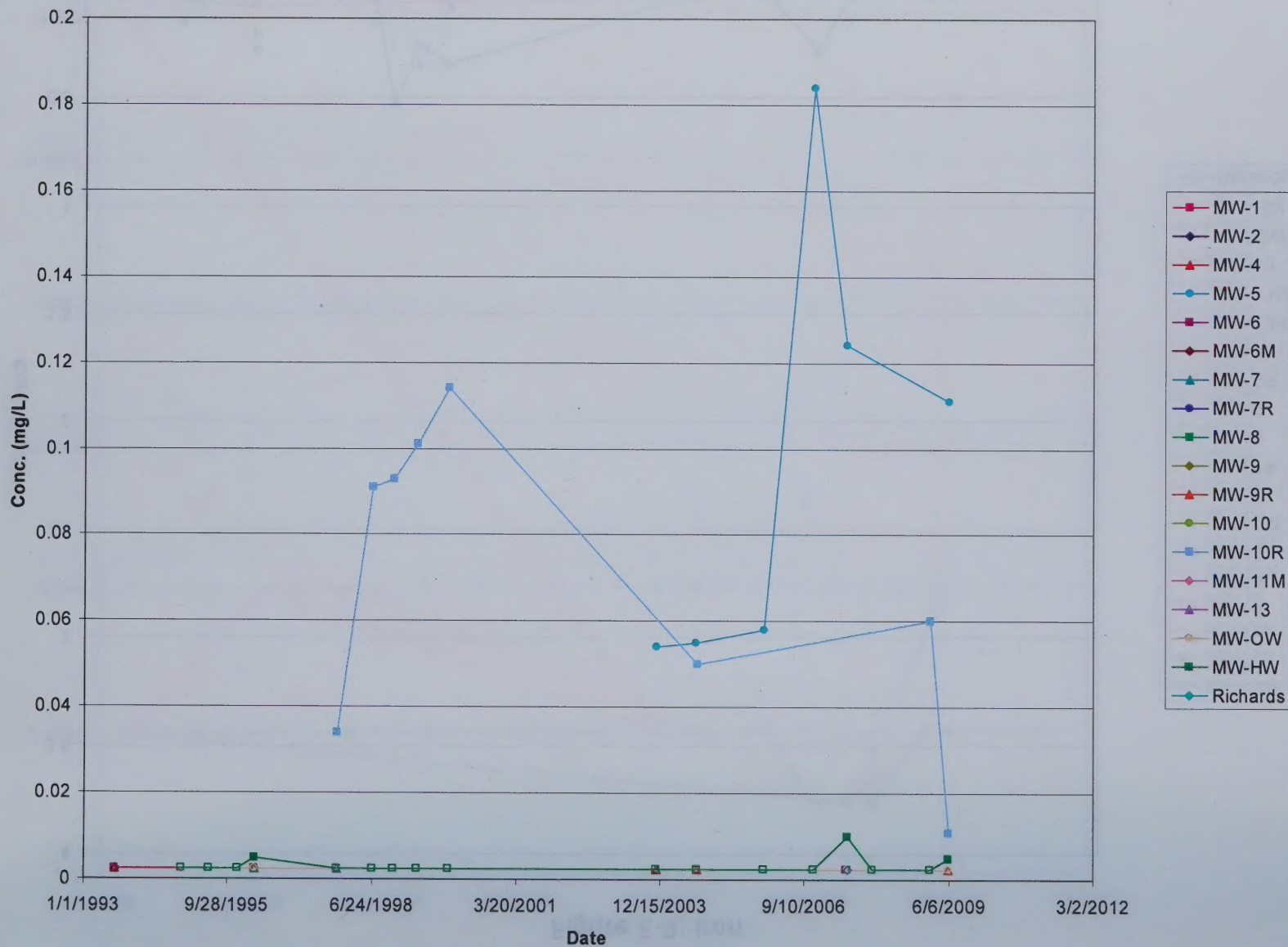


Figure E-11: Zinc

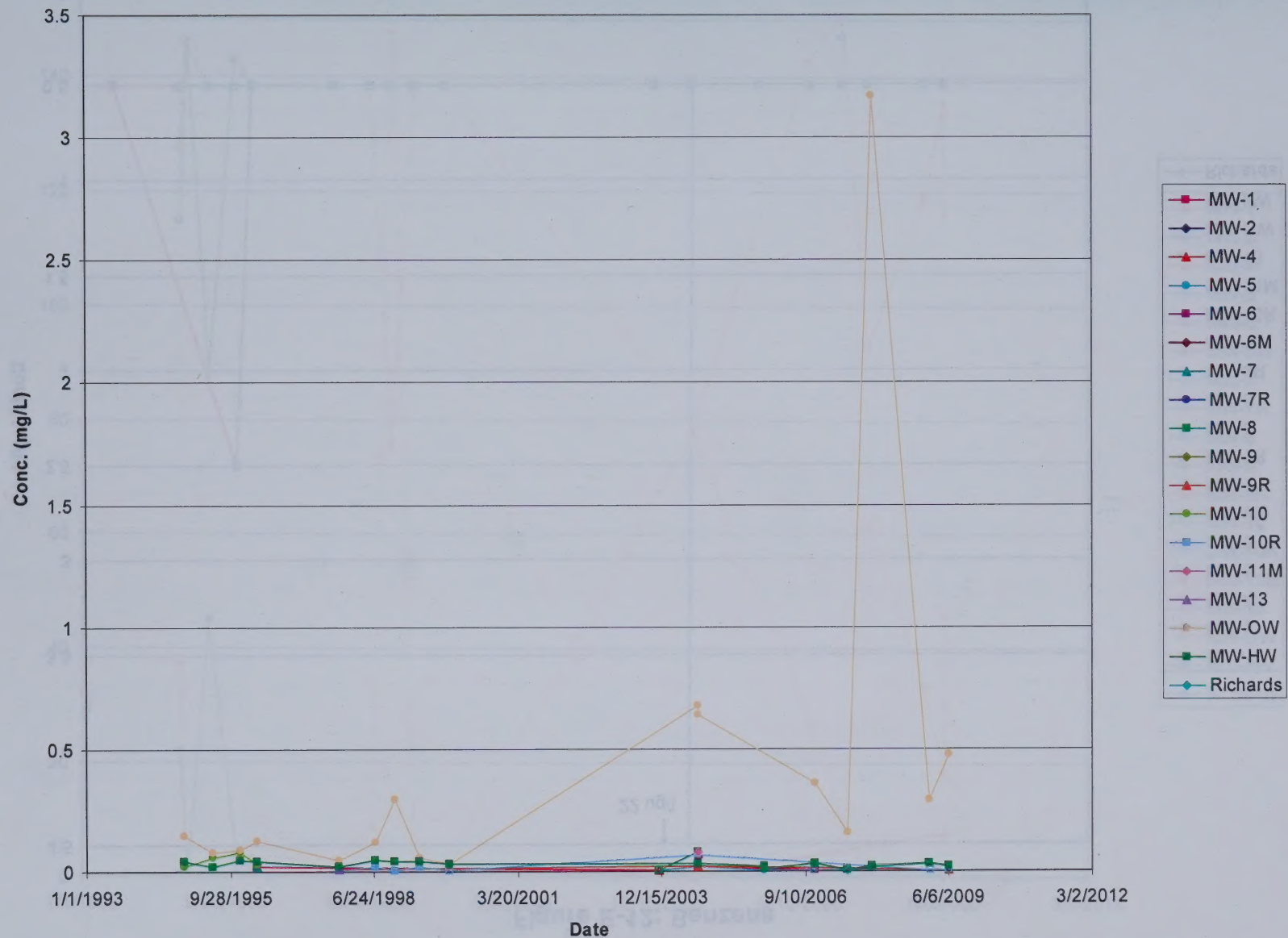


Figure E-12: Benzene



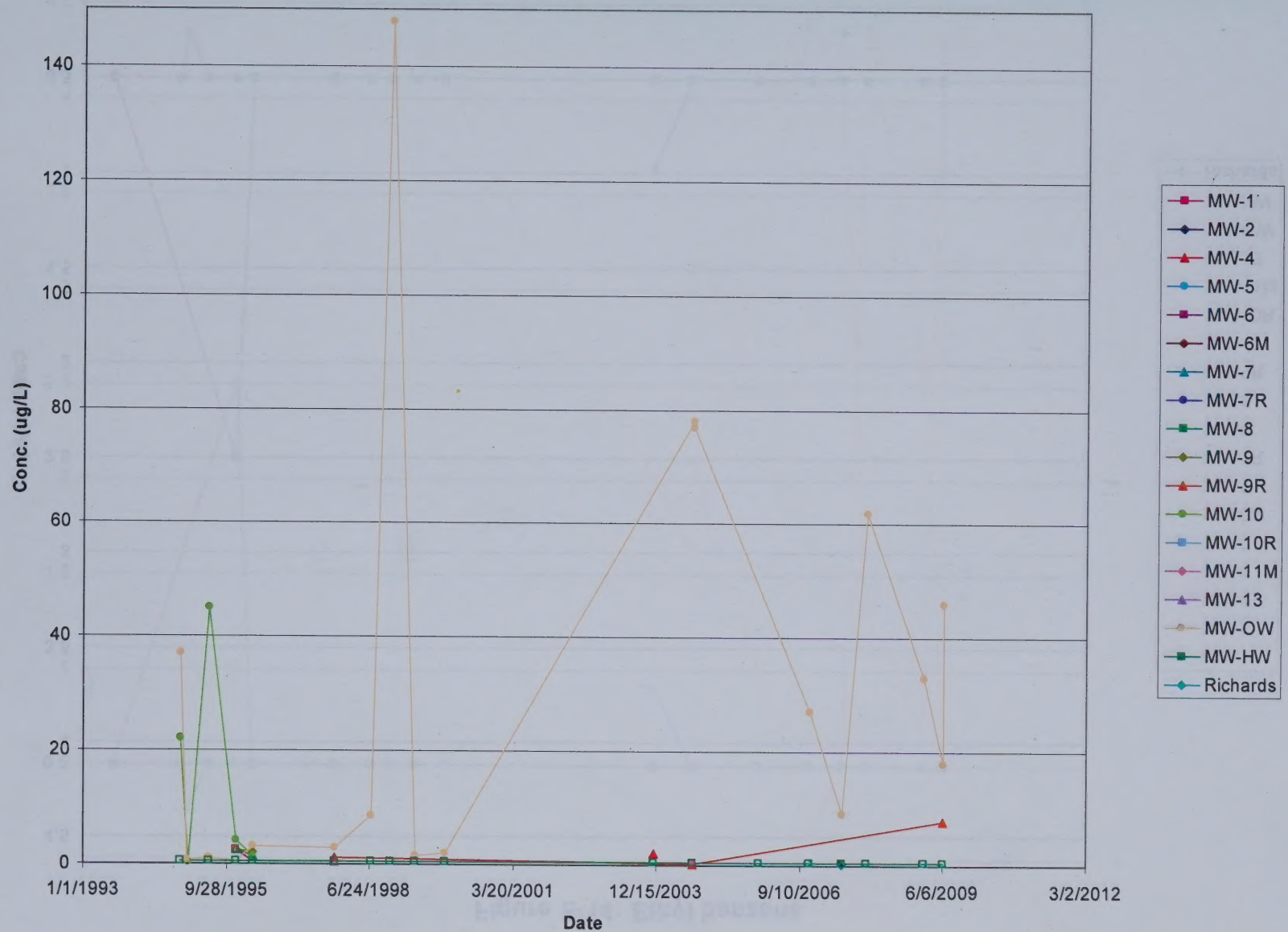




Figure E-15: Styrene



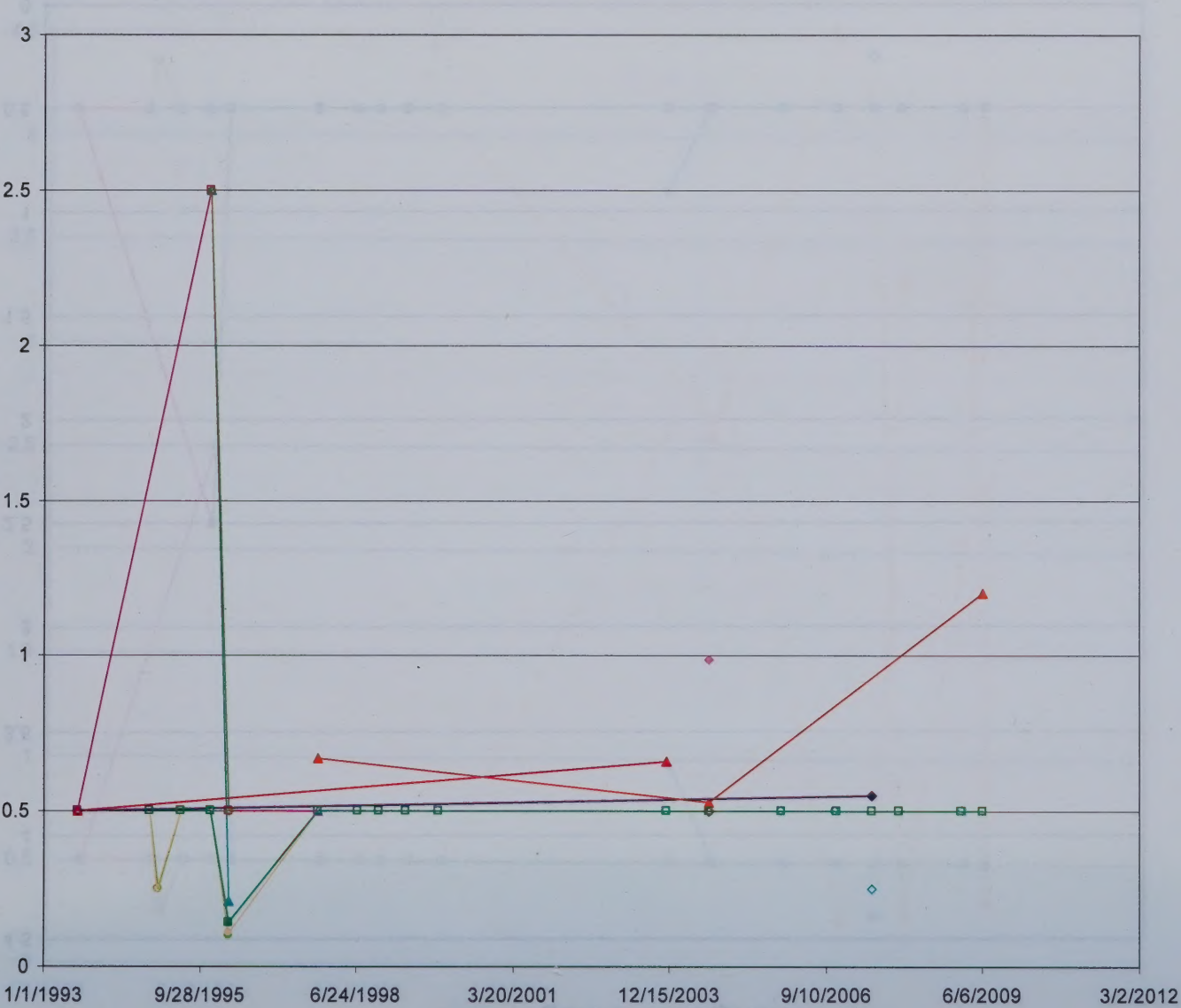
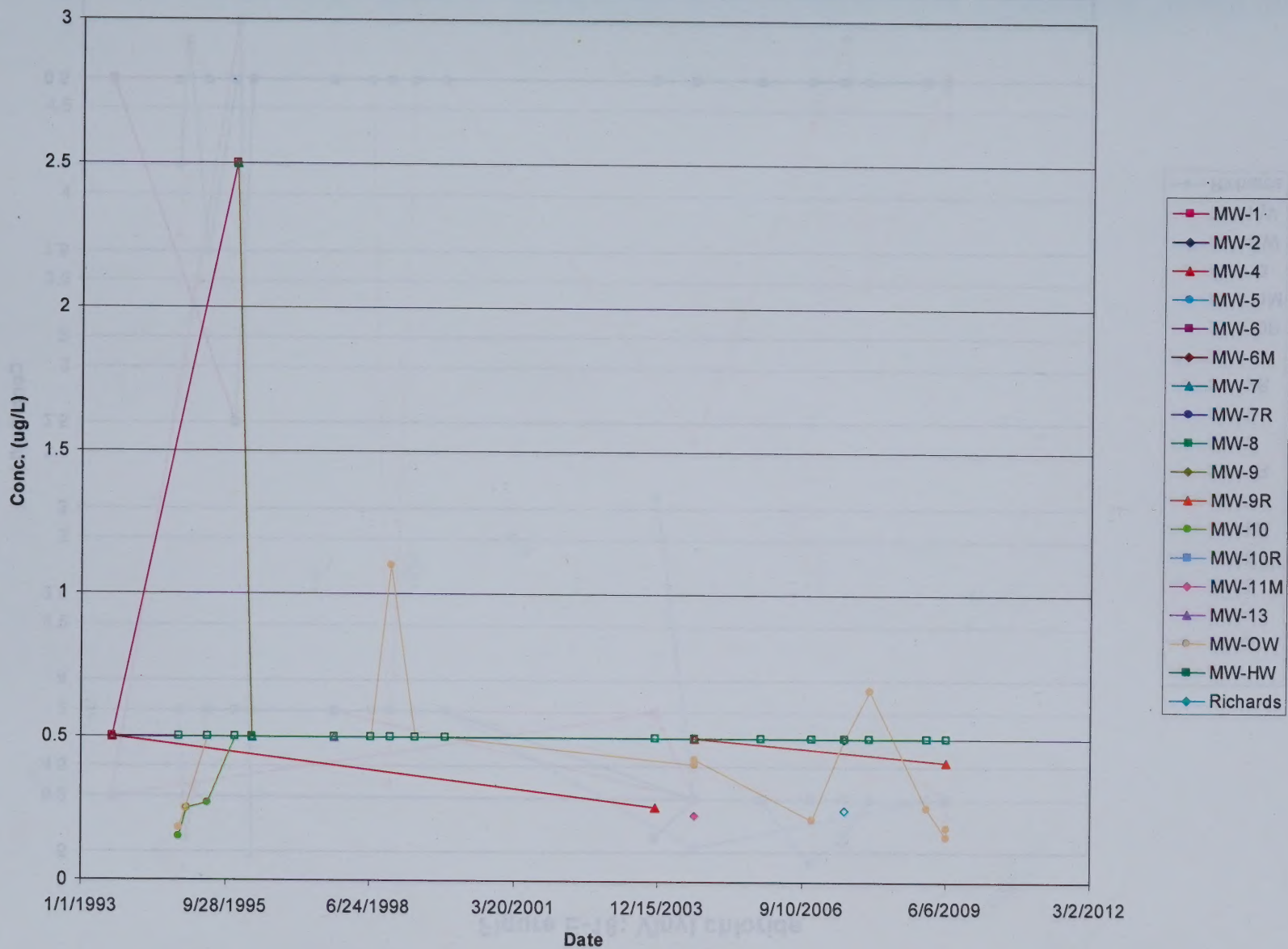
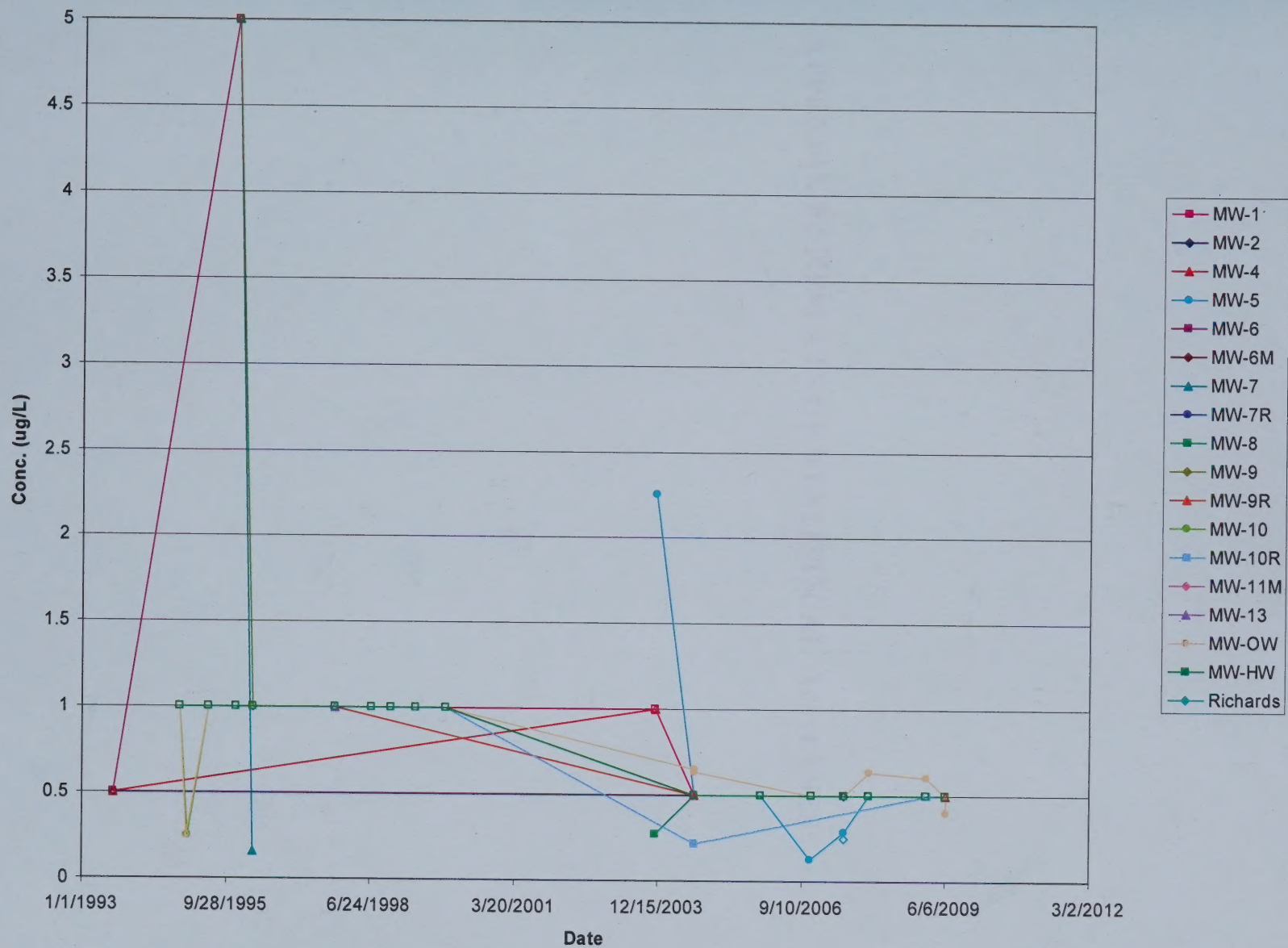


Figure E-17: Trichloroethene

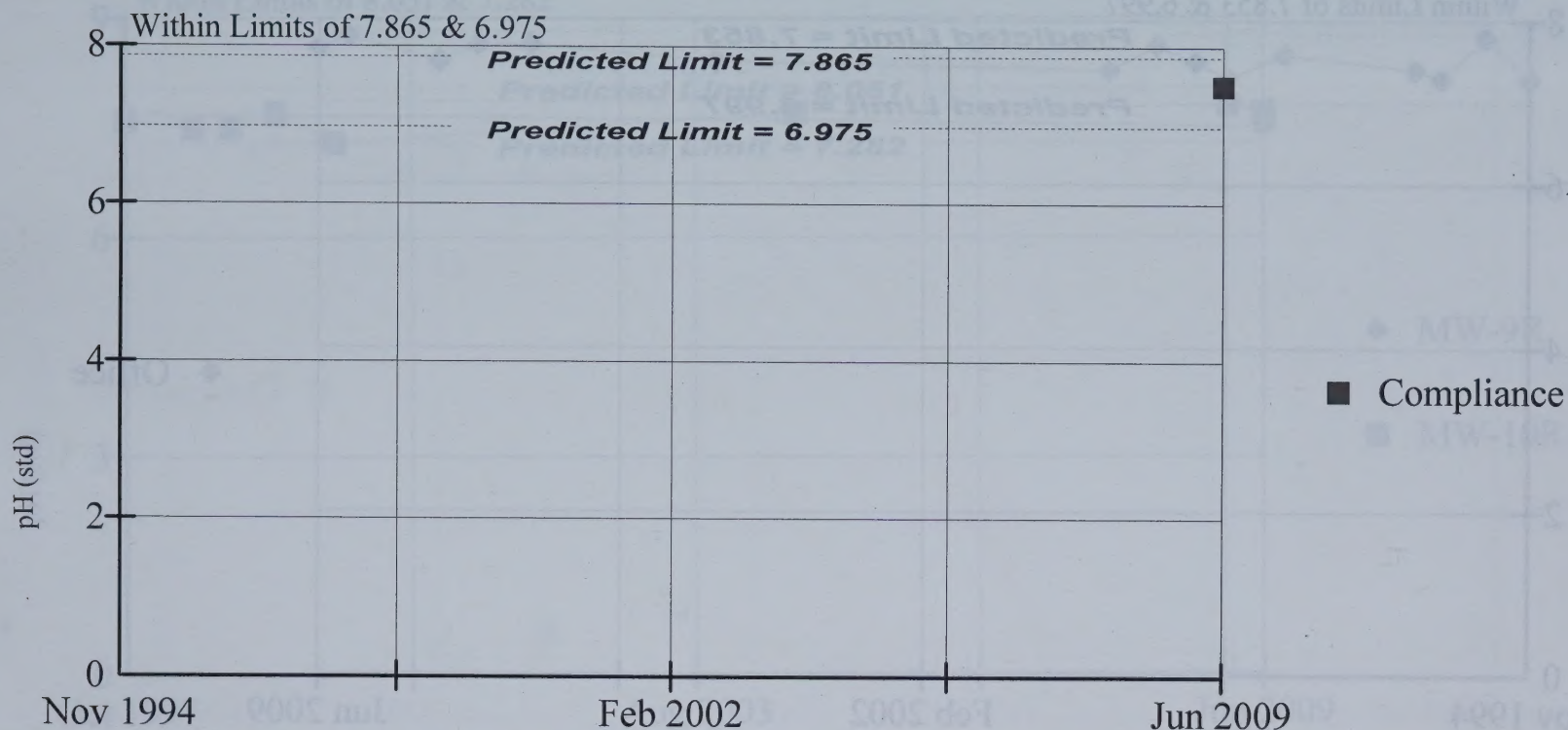






APPENDIX F: RESULTS OF STATISTICAL ANALYSES

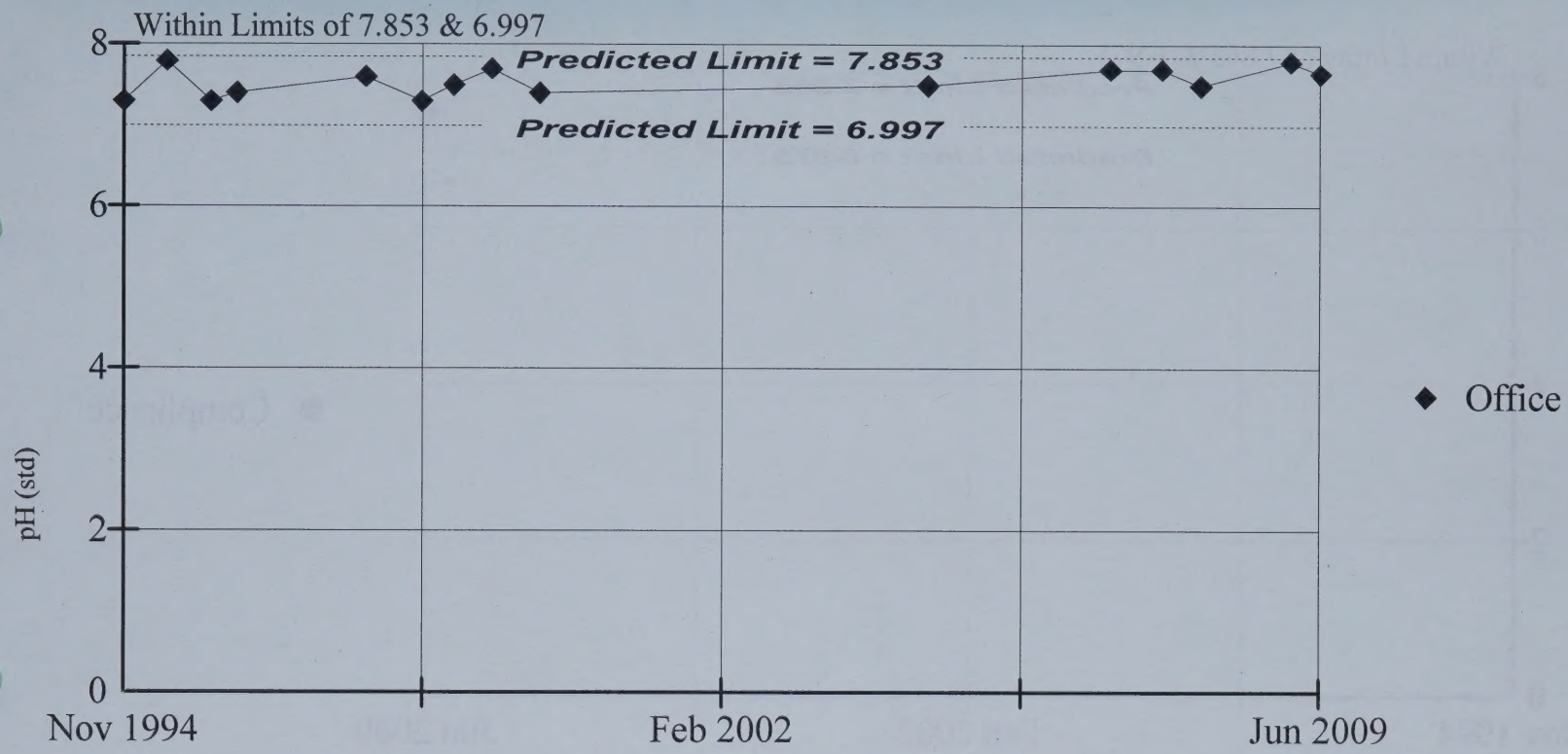
PARM. 2-TAILED INTRA-WELL PREDICTION INTERVAL House



Background Data Summary: Mean=7.42, Std. Dev=0.201, 0% nds, 15 obs. Normality test used: Shapiro Wilk. W Statistic for background data = 0.962, W Quantile = 0.881. Testwise alpha = 0.025 per tail.

Figure F-1: Background Analysis for pH in MW-HW

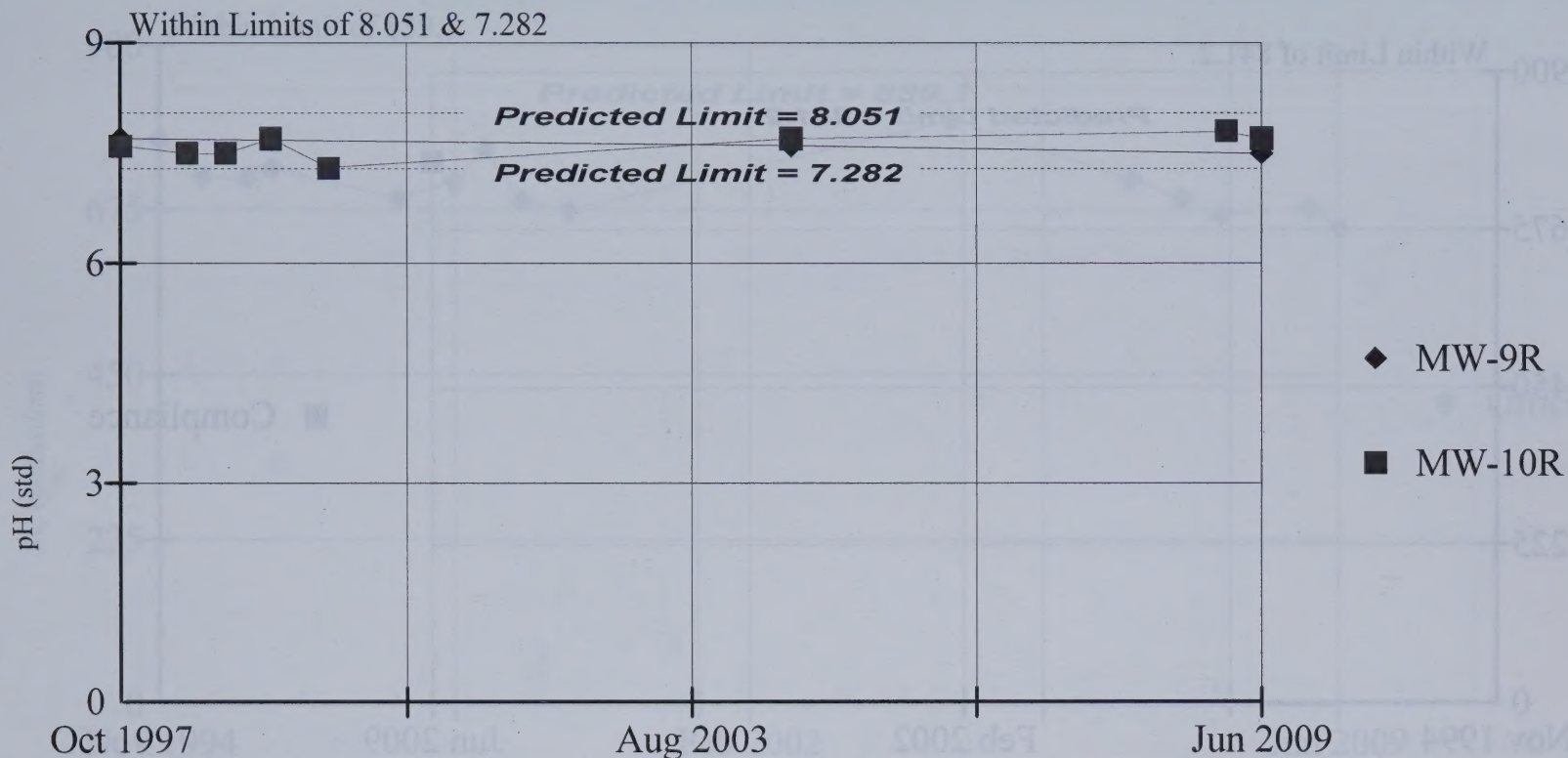
PARM. 2-TAILED INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=7.425, Std. Dev=0.195, 0% nds, 16 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9652, W Quantile = 0.887. Testwise alpha = 0.025 per tail. Most recent point compared to limit.

Figure F-2: Prediction Interval Analysis for pH in Deep Wells

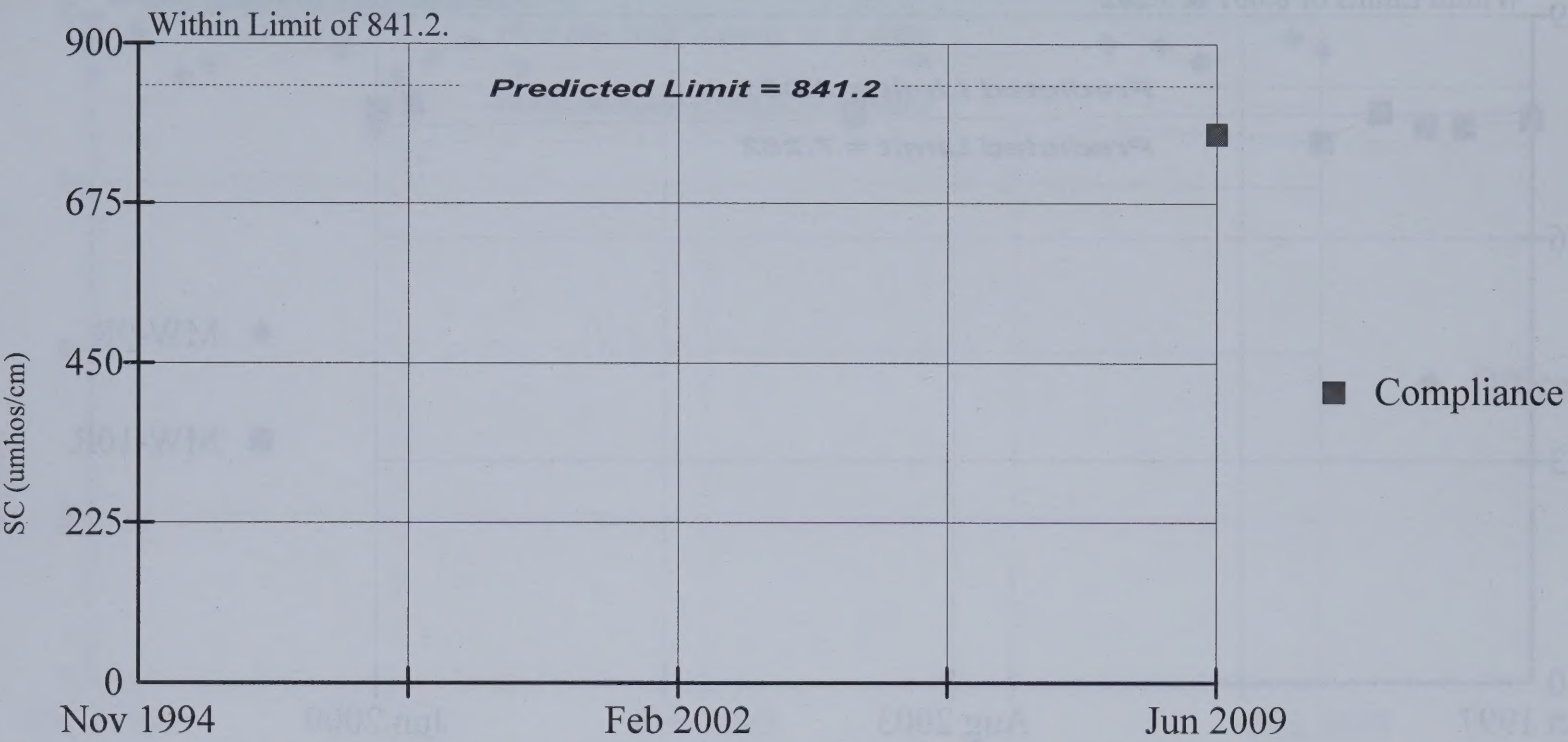
PARM. 2-TAILED INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=7.667, Std. Dev=0.158, 0% nds, 9 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.886, W Quantile = 0.829. Testwise alpha = 0.04875 per tail., 0.025 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-3: Prediction Interval Analysis for pH in Shallow Wells

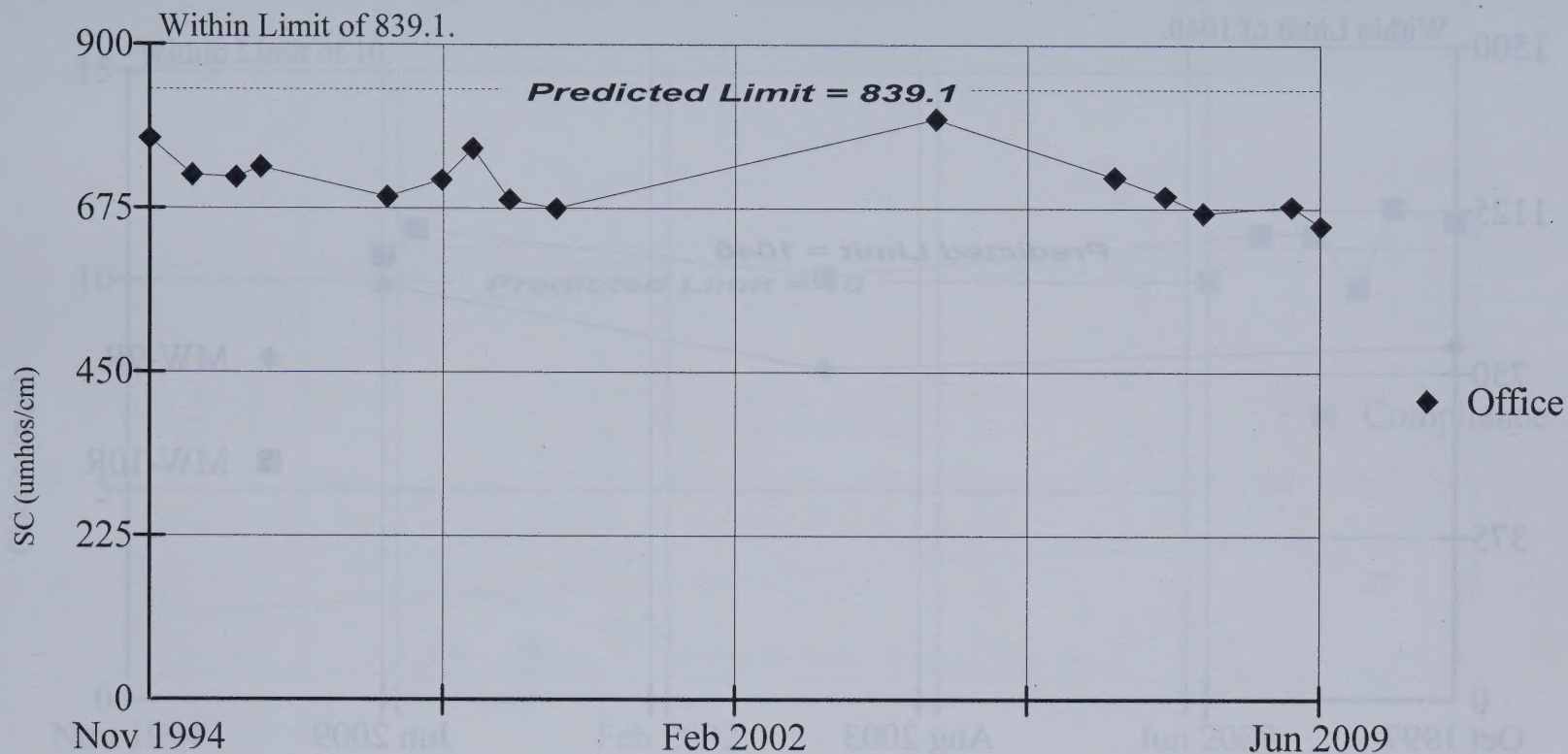
PARAMETRIC INTRA-WELL PREDICTION INTERVAL House



Background Data Summary: Mean=757.3, Std. Dev=46.09, 0% nds, 15 obs. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9676, W Quantile = 0.881. Testwise alpha = 0.05.

Figure F-4: Background Analysis for Specific Conductance in MW-HW

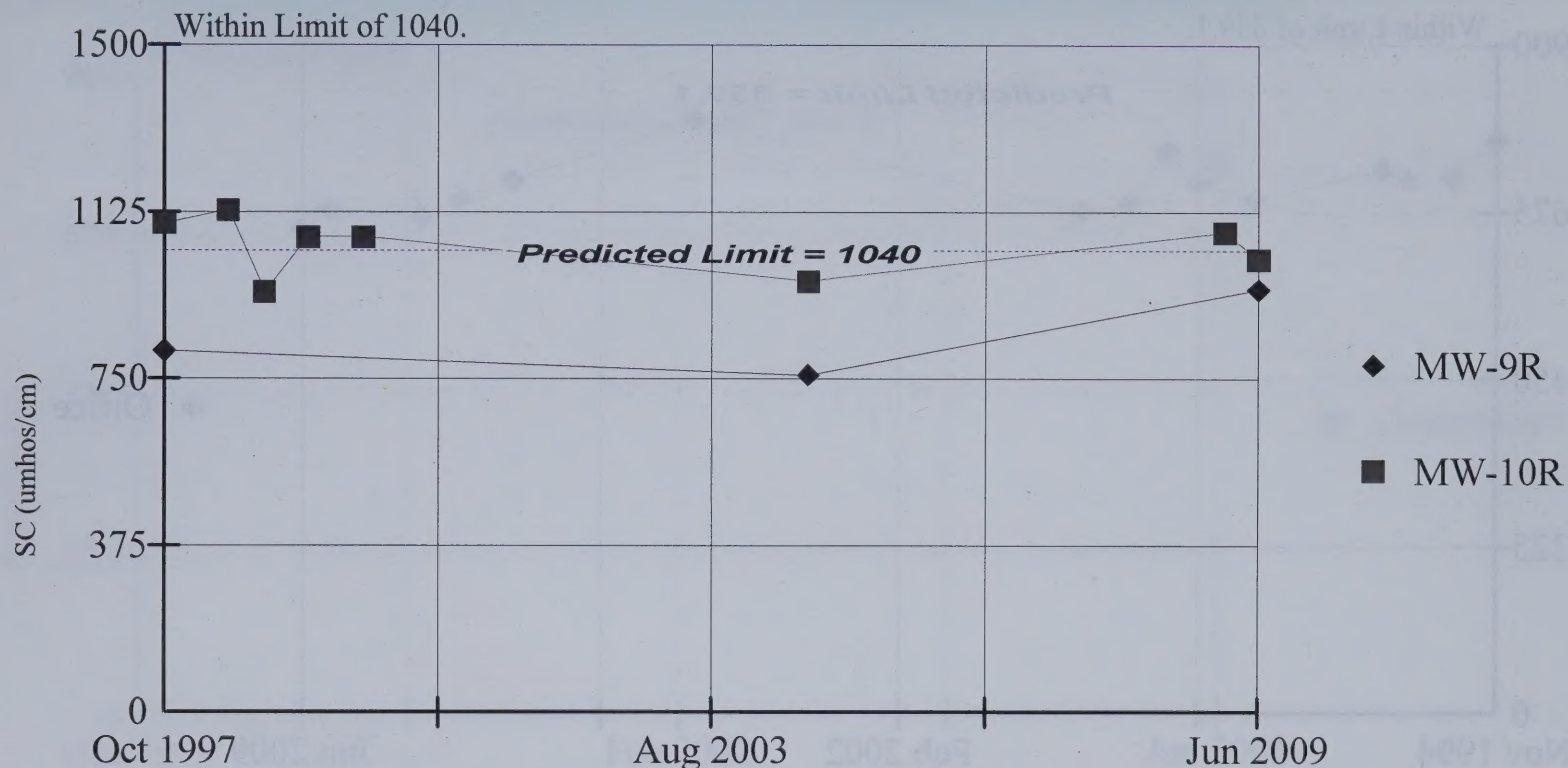
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=758.3, Std. Dev=44.7, 0% nds, 16 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9627, W Quantile = 0.887. Testwise alpha = 0.05 Most recent point compared to limit.

Figure F-5: Prediction Interval Analysis for Specific Conductance in Deep Wells

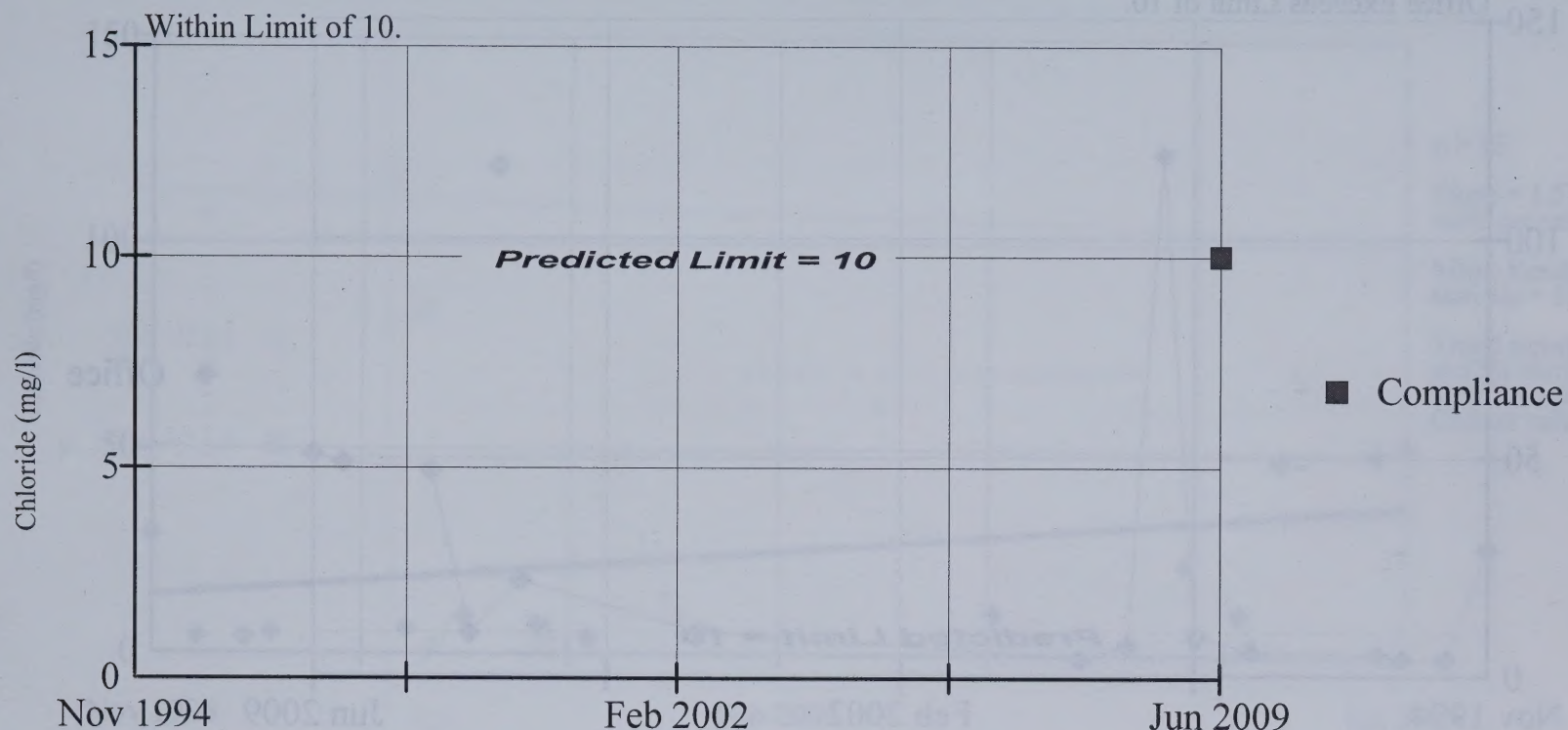
NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



9 background obs. (3 wells) Testwise alpha = 0.1818 Most recent point for each compliance well compared to limit.
Non-P test used in lieu of Parametric Inter-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-6: Prediction Interval Analysis for Specific Conductance in Shallow Wells

NON-PARAMETRIC INTRA-WELL PREDICTION INTERVAL House

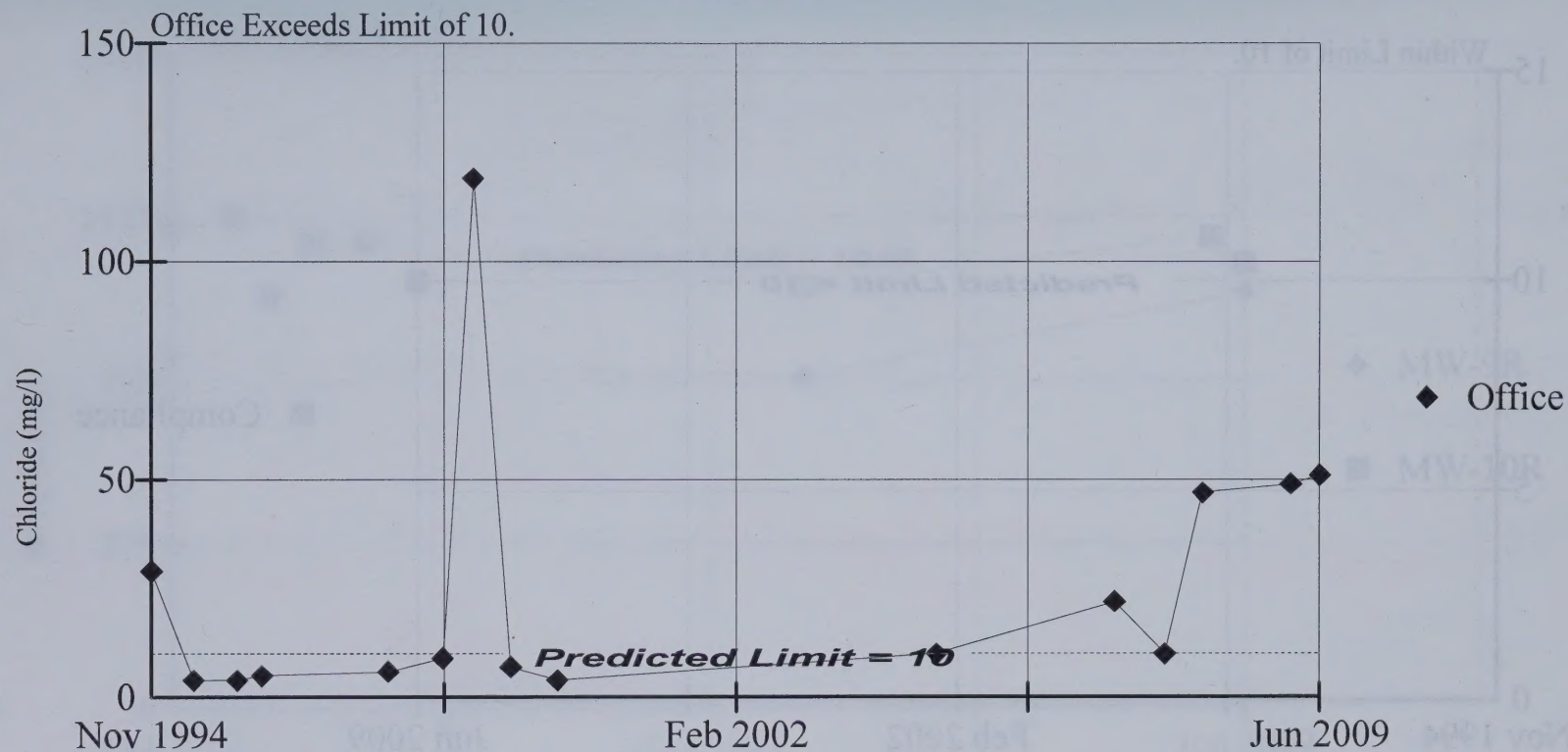


15 background obs. Testwise alpha = 0.0625.

Non-P test used in lieu of Parametric Intra-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-7: Background Analysis for Chloride in MW-HW

NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL

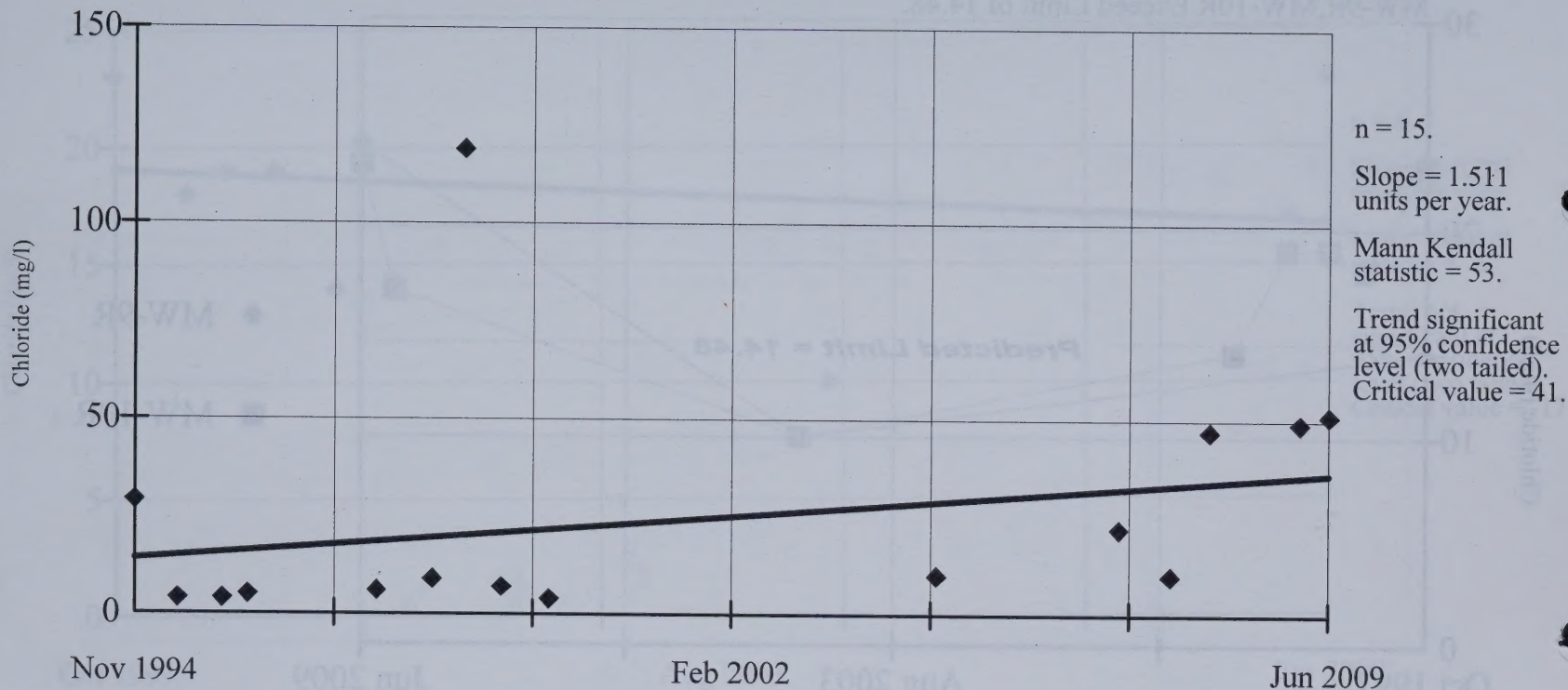


16 background obs. Testwise alpha = 0.05882 Most recent point compared to limit.

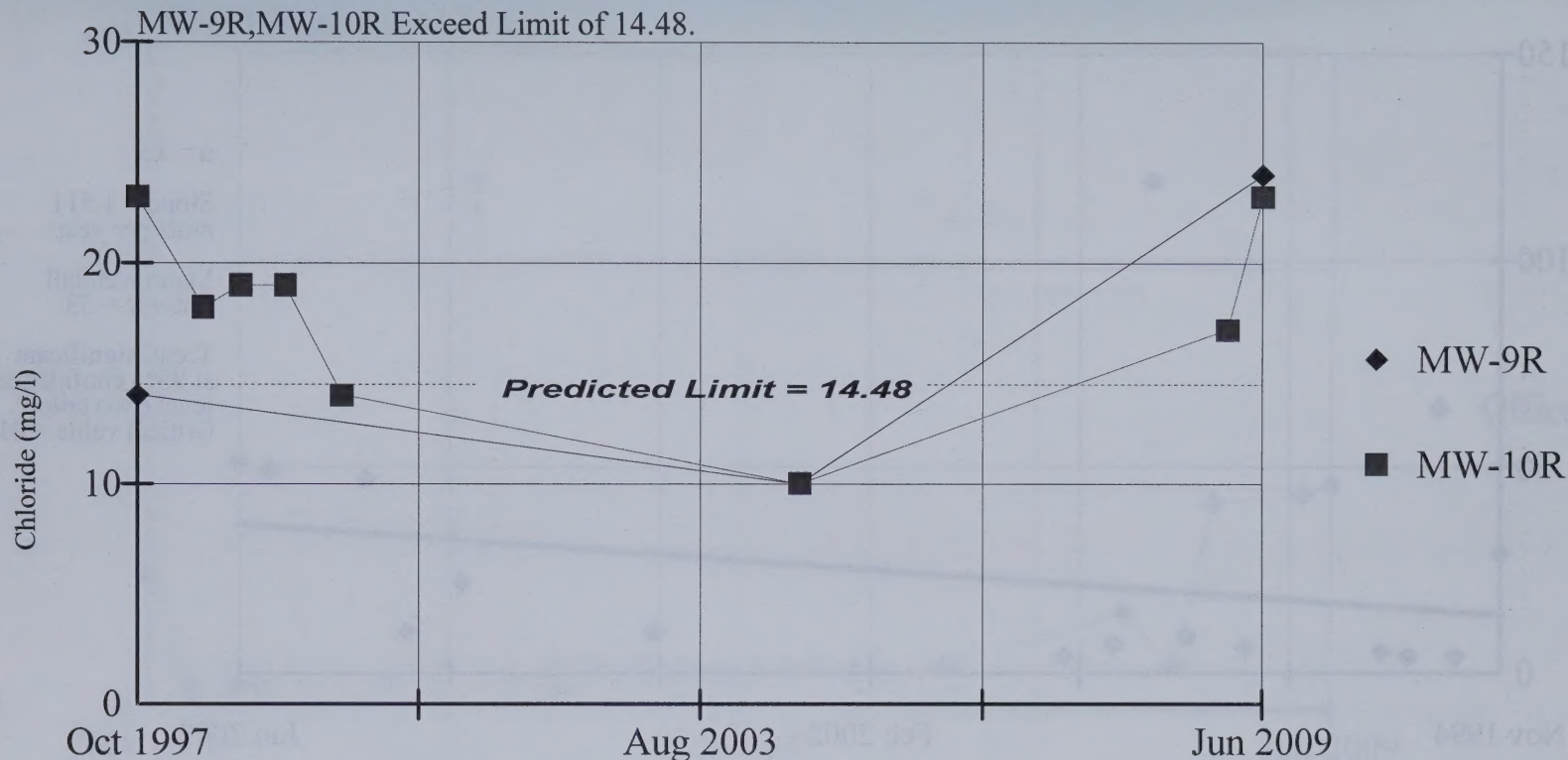
Non-P test used in lieu of Parametric Inter-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-8: Prediction Interval Analysis for Chloride in Deep Wells

SEN'S SLOPE ESTIMATOR Office



PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=7.778, Std. Dev=3.42, 0% nds, 9 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9049, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-10: Prediction Interval Analysis for Chloride in Shallow Wells

SEN'S SLOPE ESTIMATOR MW-10R

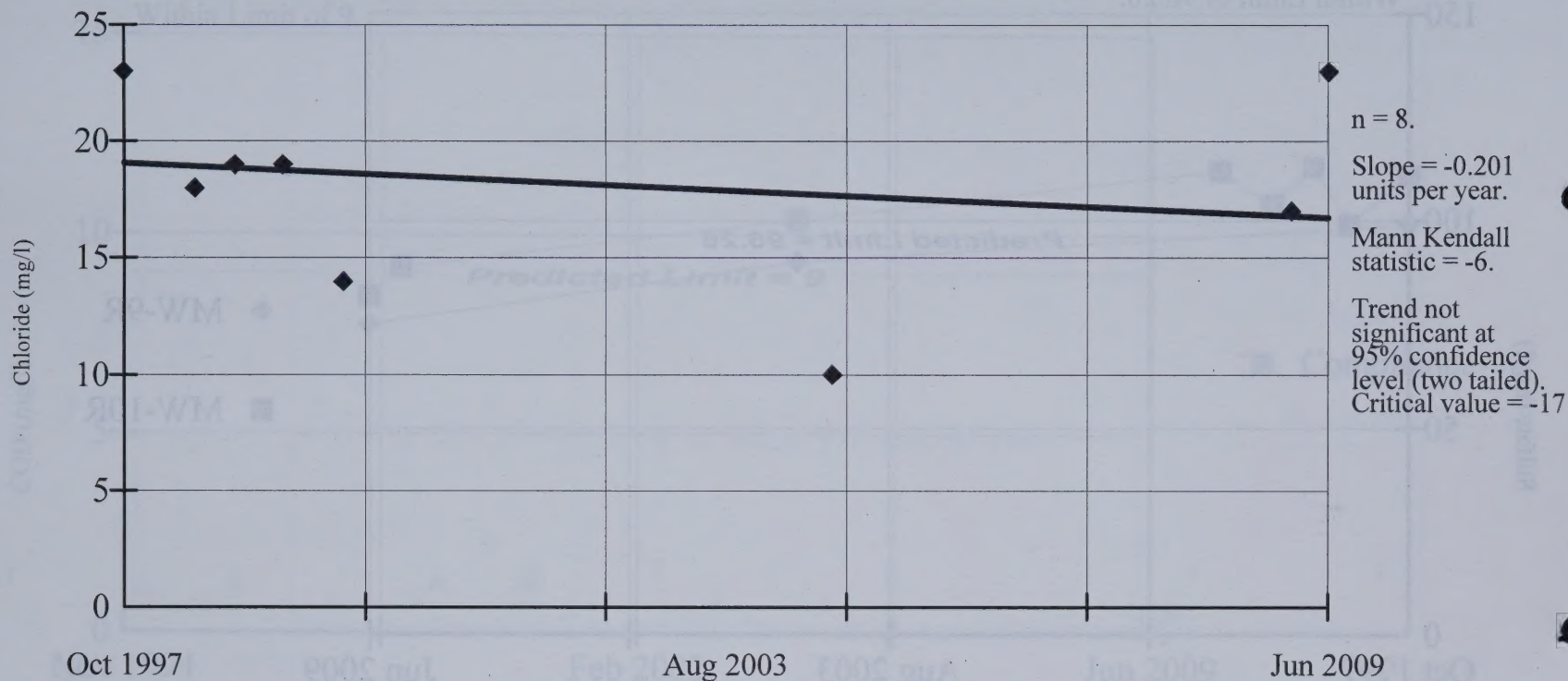
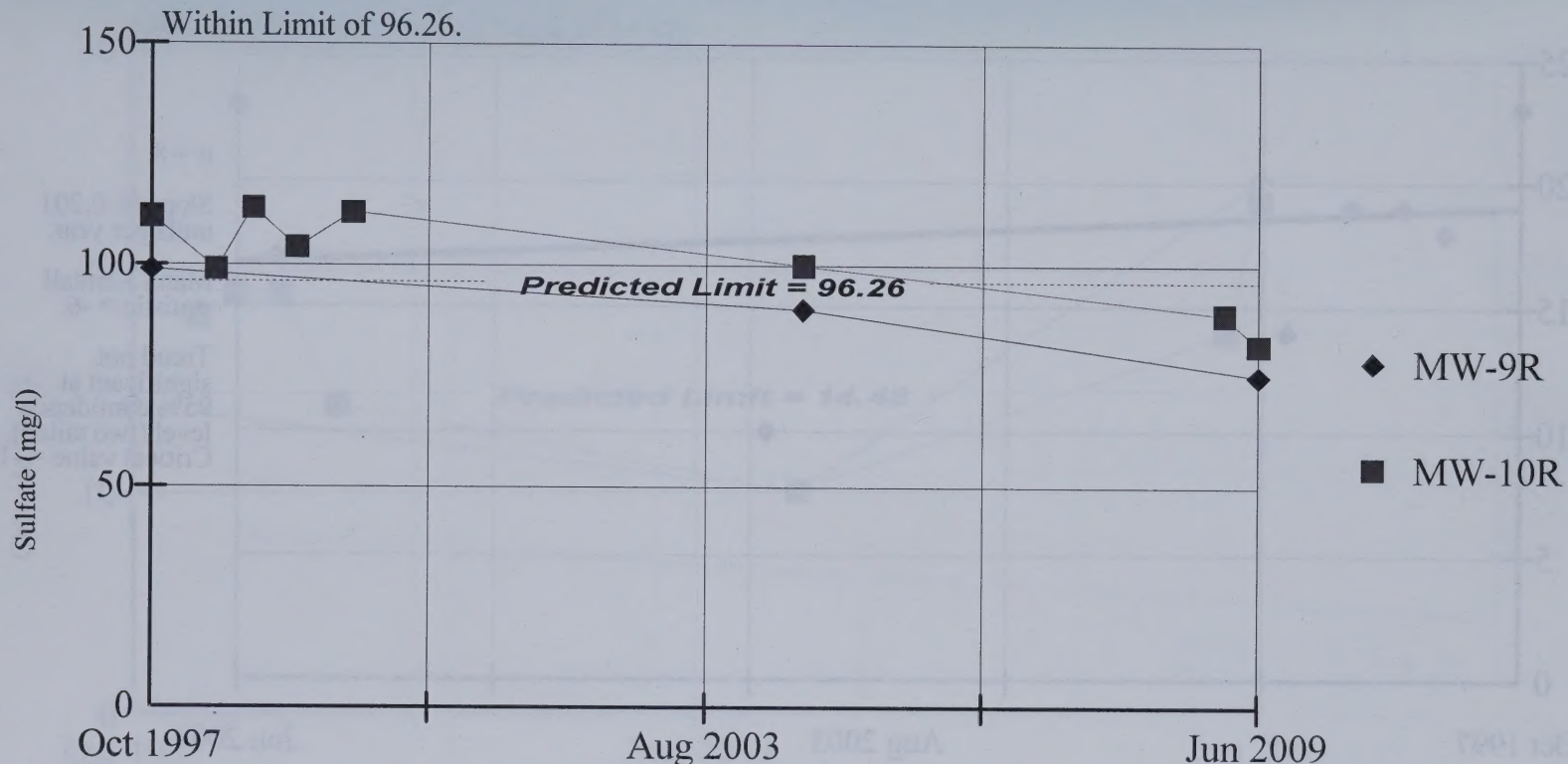


Figure F-11: Trend Analysis for Chloride in MW-10R

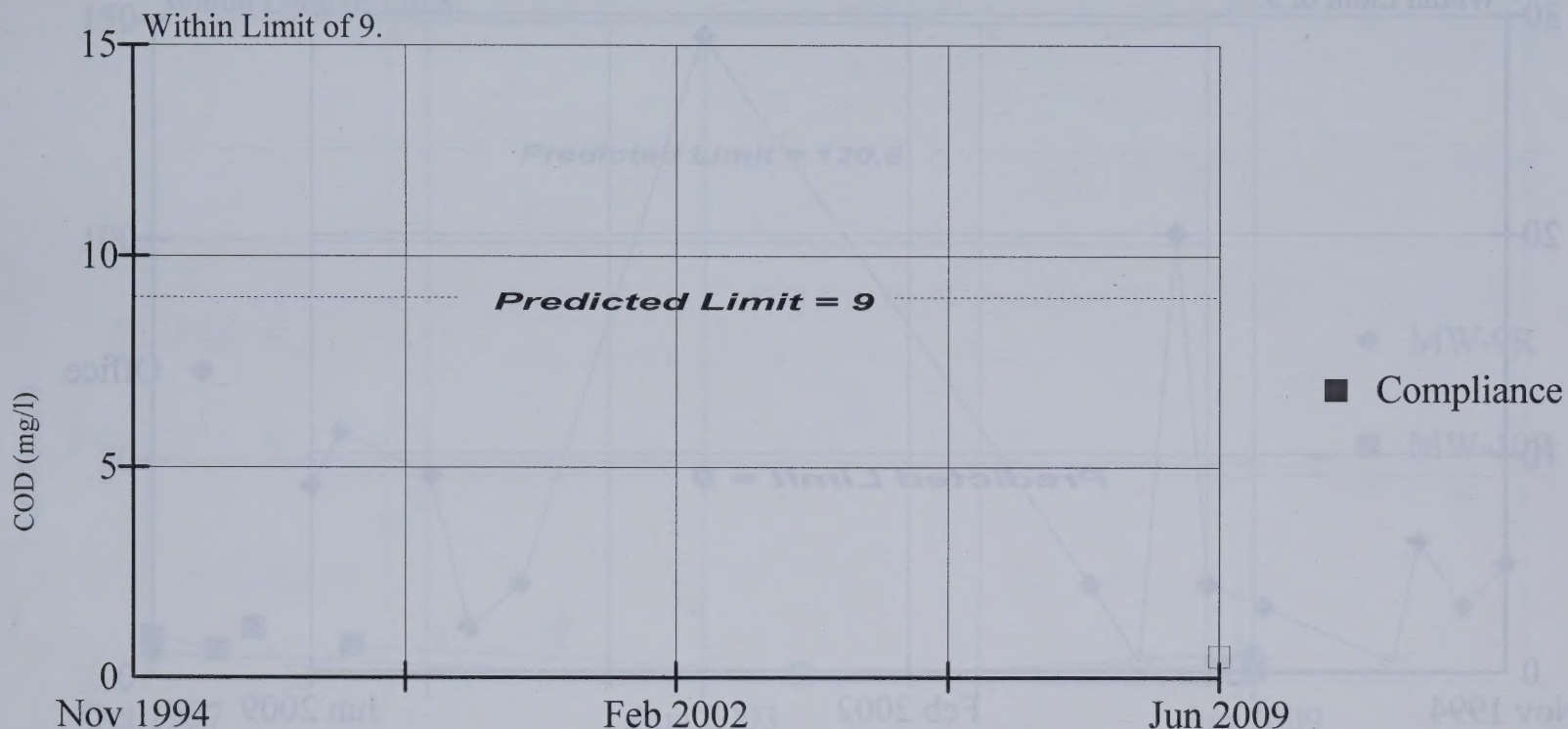
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=54.11, Std. Dev=21.5, 0% nds, 9 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9019, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-12: Prediction Interval Analysis for Sulfate in Shallow Wells

NON-PARAMETRIC INTRA-WELL PREDICTION INTERVAL House

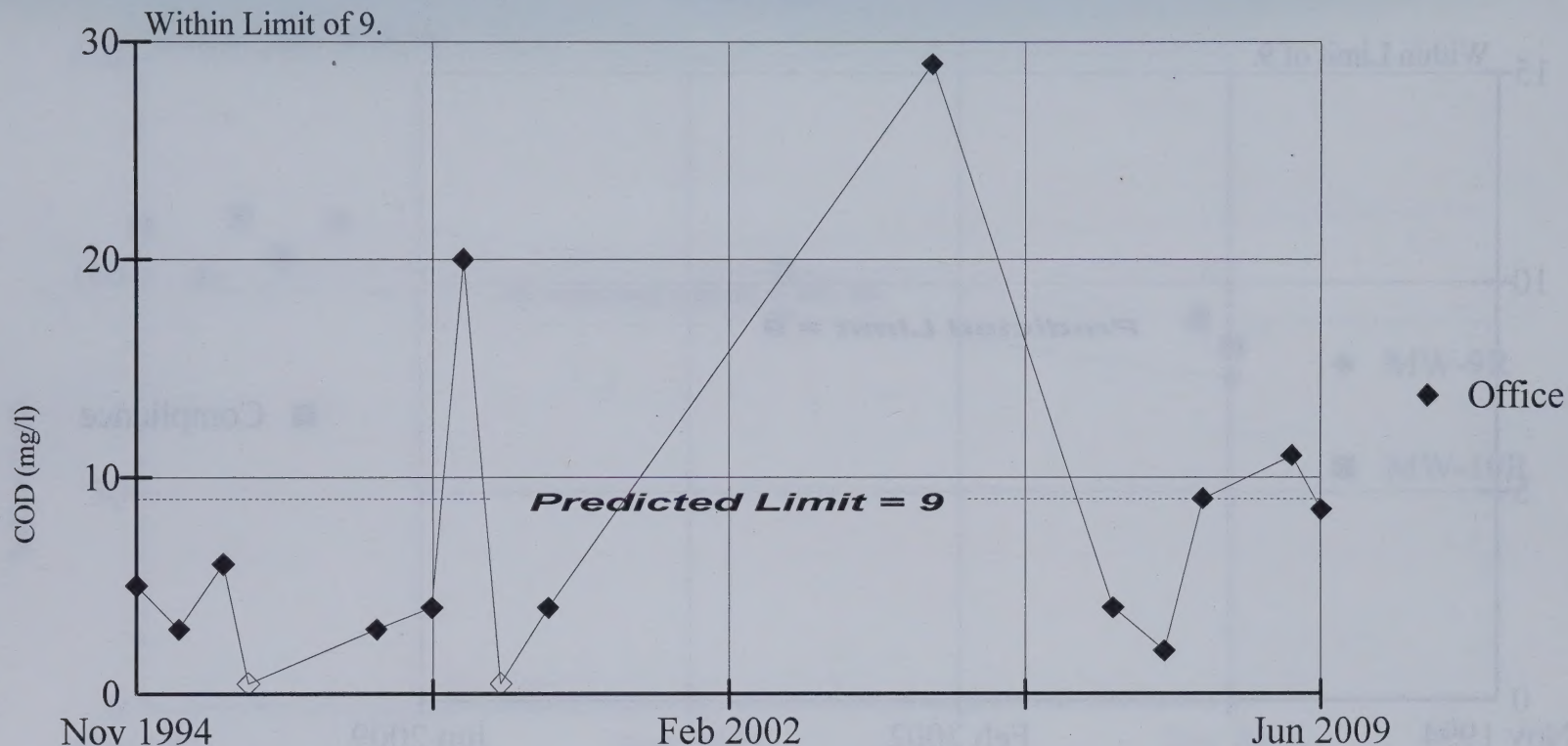


15 background obs. Testwise alpha = 0.0625. Hollow symbols indicate censored values.

Non-P test used in lieu of Parametric Intra-Well Prediction Interval because non-detects (53.33%) were in excess of 50% of the data.

Figure F-13: Background Analysis for Chemical Oxygen Demand in MW-HW

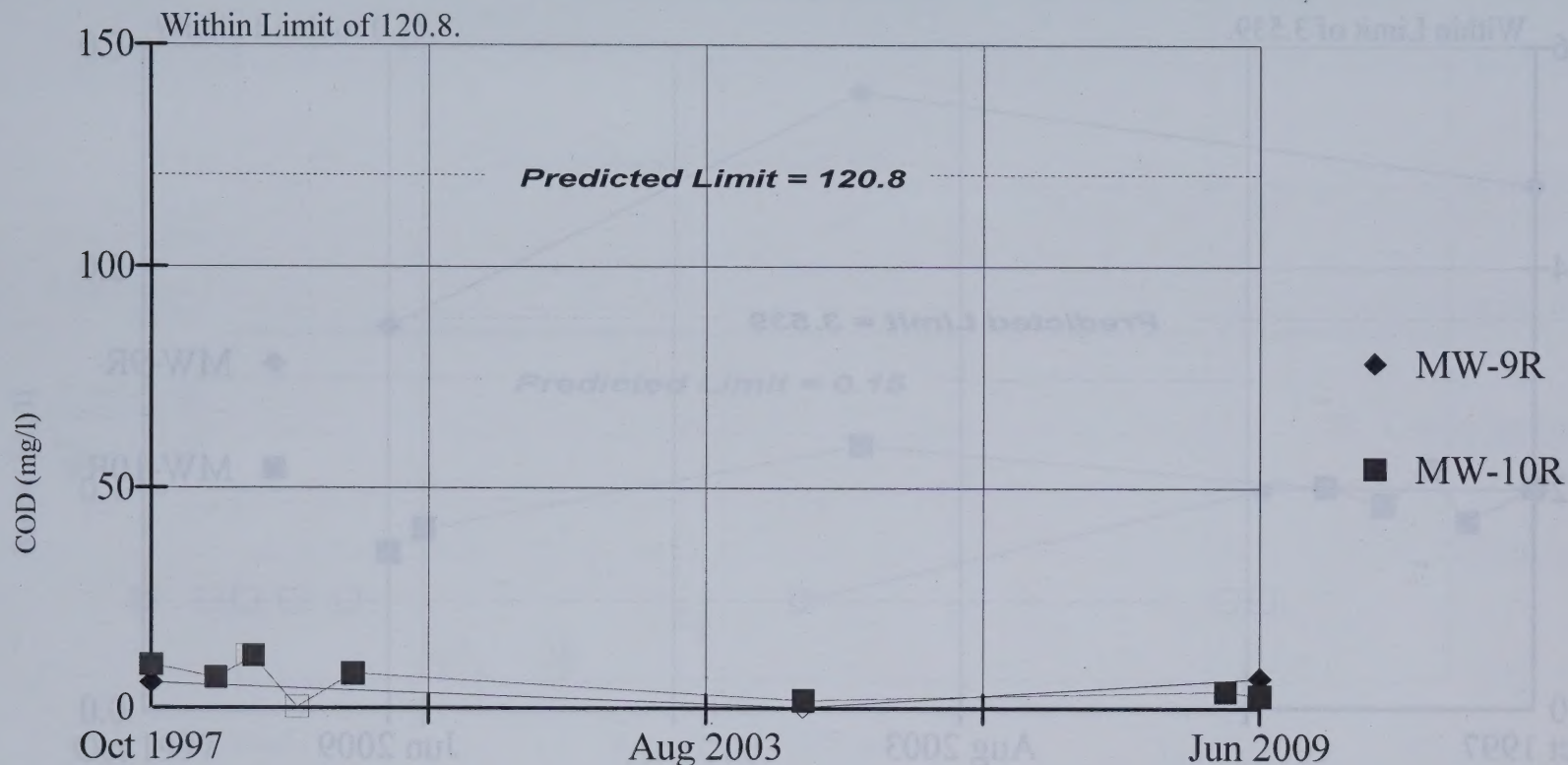
NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



16 background obs. Testwise alpha = 0.05882 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Inter-Well Prediction Interval because non-detects (56.25%) were in excess of 50% of the data.

Figure F-14: Prediction Interval Analysis for Chemical Oxygen Demand in Deep Wells

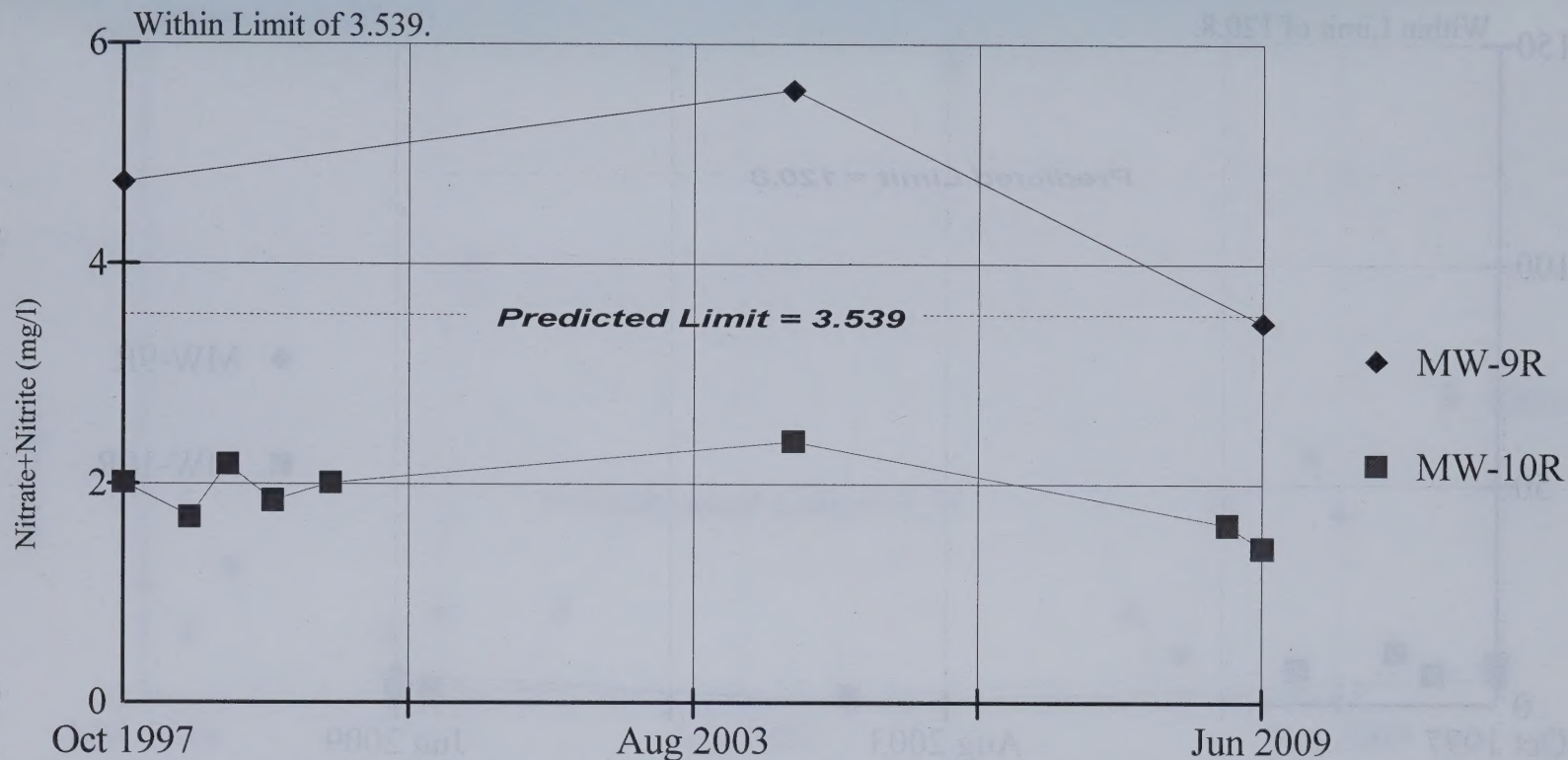
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: (based on log transformed data) Mean=2.137, Std. Dev=1.356, 0% nds, 9 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9051, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit. Hollow symbols indicate censored values.

Figure F-15: Prediction Interval Analysis for Chemical Oxygen Demand in Shallow Wells

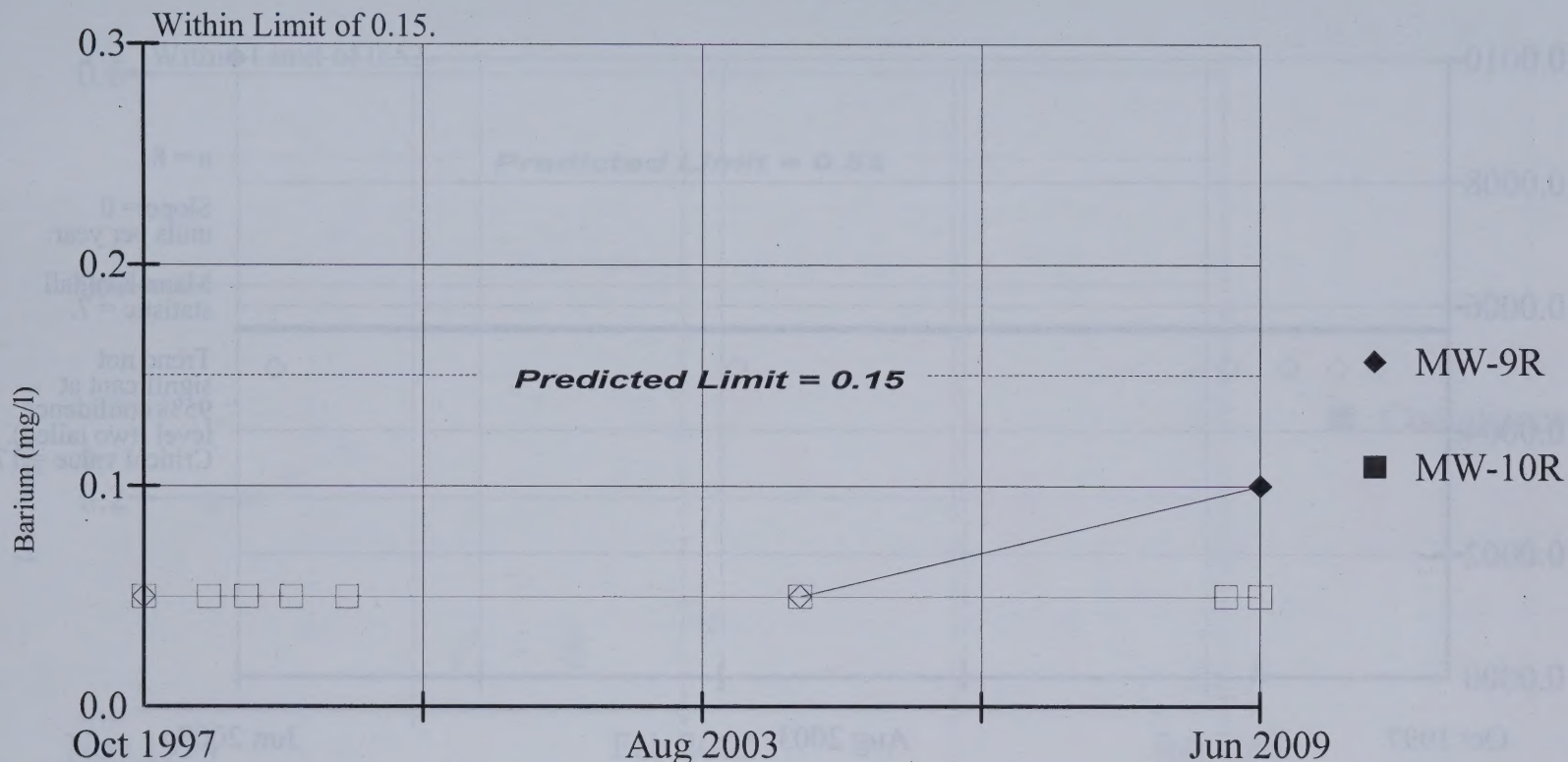
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=1.969, Std. Dev=0.801, 0% nds, 9 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.8568, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-16: Prediction Interval Analysis for Nitrate + Nitrite in Shallow Wells

NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



8 background obs. (3 wells) Testwise alpha = 0.2 Most recent point for each compliance well compared to limit. Hollow symbols indicate censored values.

Non-P test used in lieu of Parametric Inter-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-17: Prediction Interval Analysis for Barium in Shallow Wells

SEN'S SLOPE ESTIMATOR MW-10R

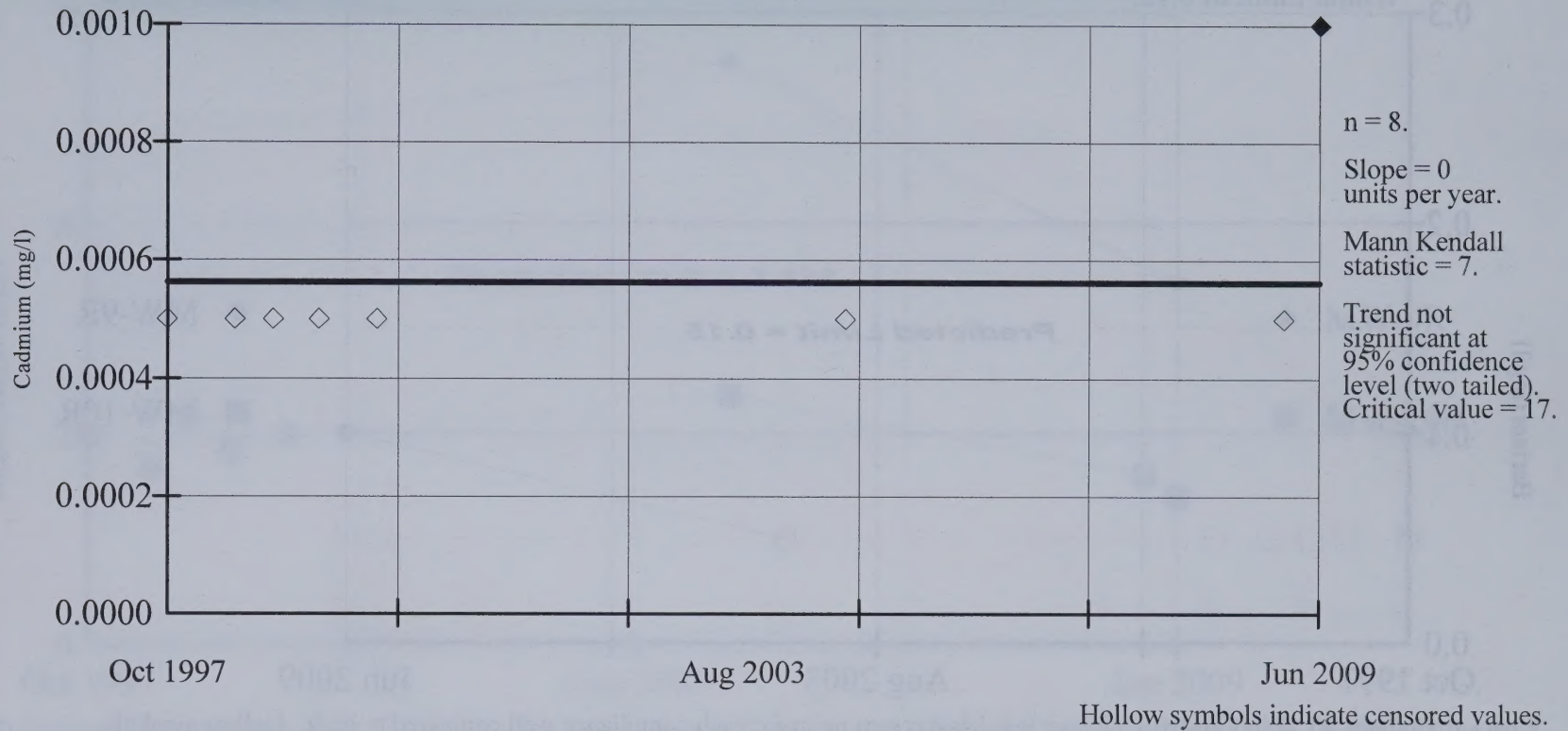


Figure F-18: Trend Analysis for Cadmium in MW-10R

House

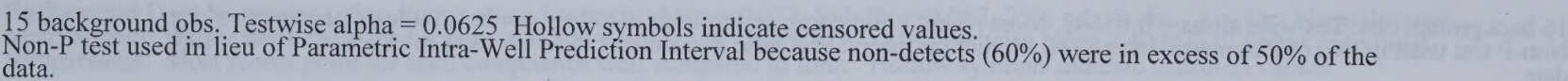
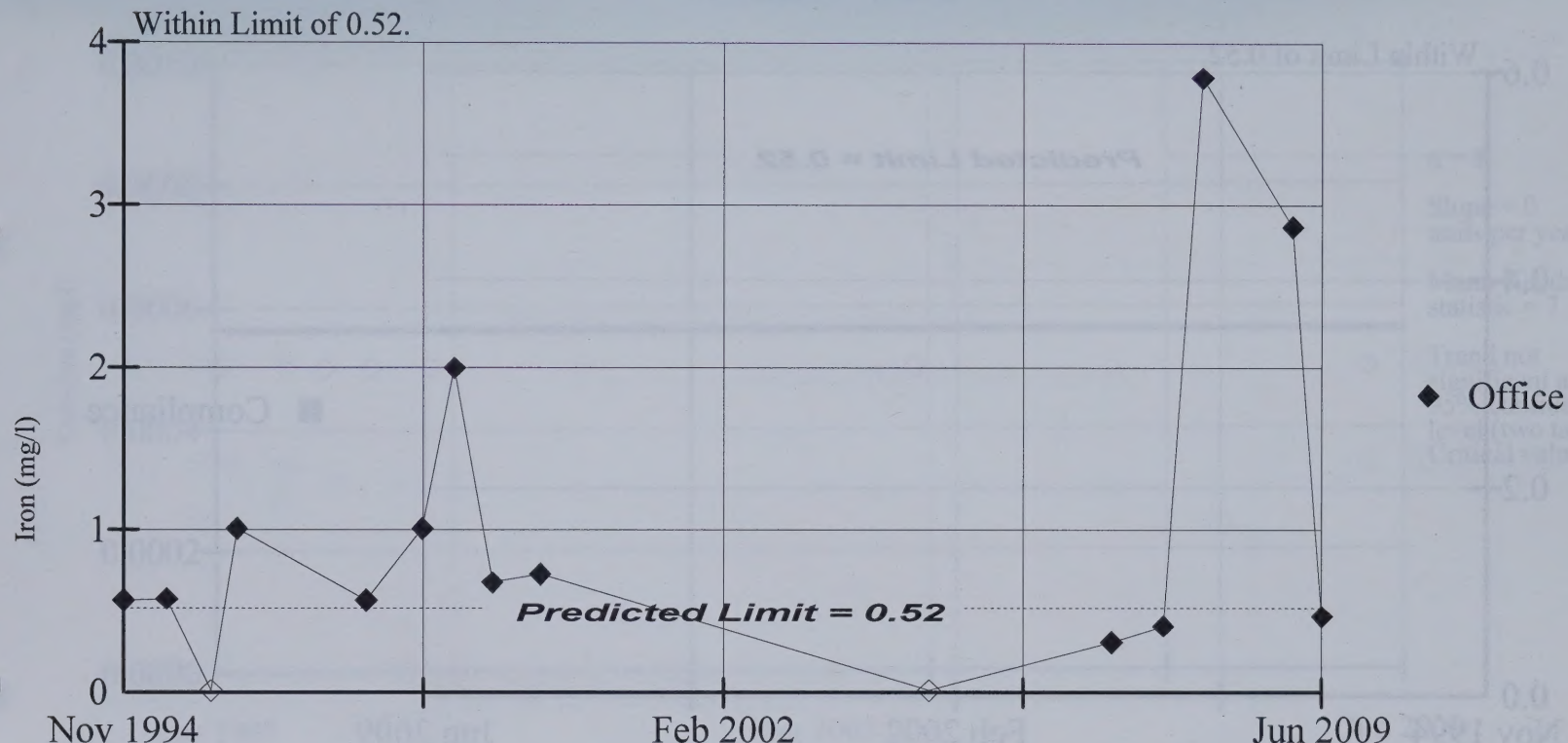


Figure F-19: Background Analysis for Iron in MW-HW

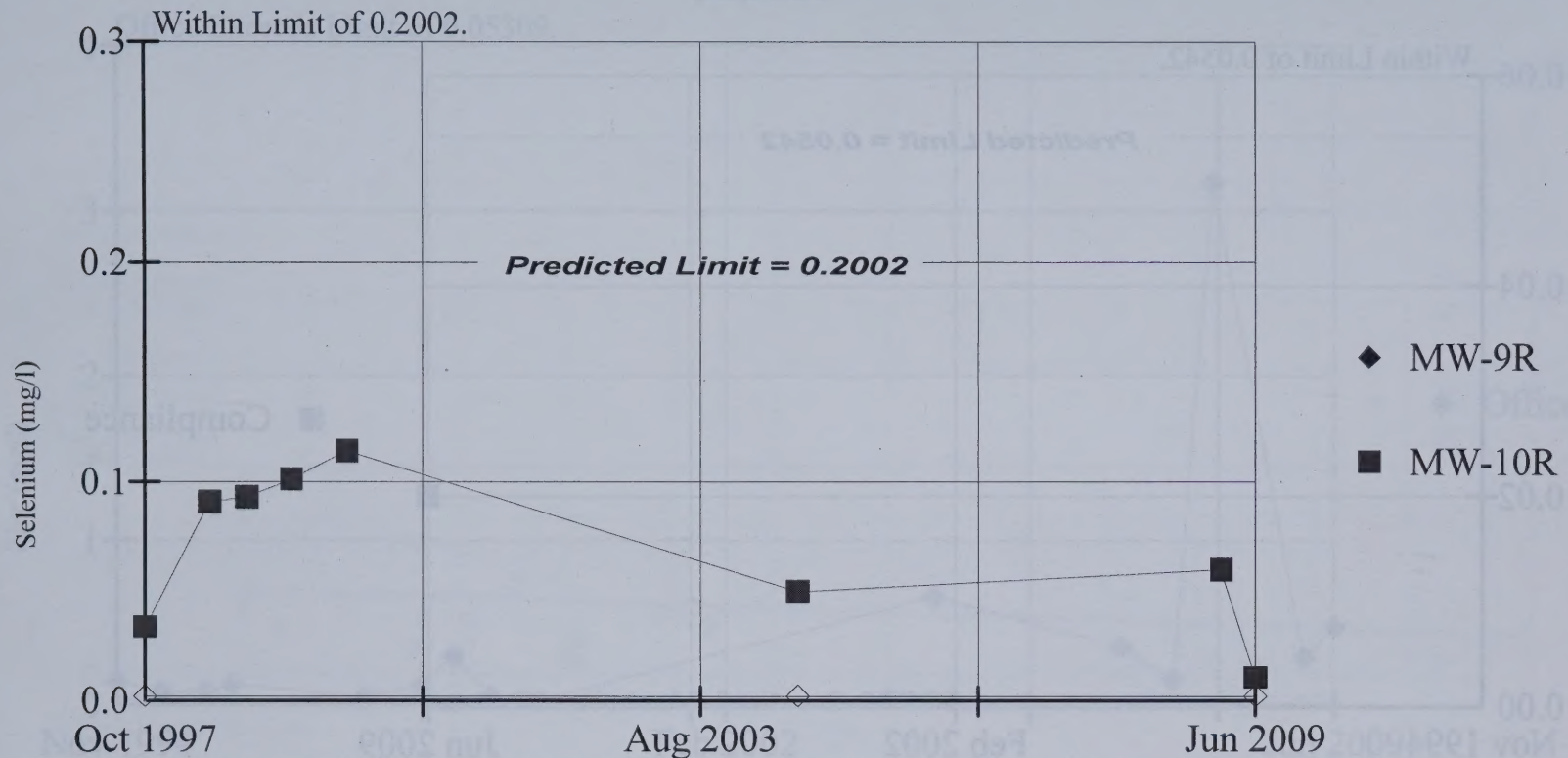
NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



16 background obs. Testwise alpha = 0.05882 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Inter-Well Prediction Interval because non-detects (62.5%) were in excess of 50% of the data.

Figure F-20: Prediction Interval Analysis for Iron in Deep Wells

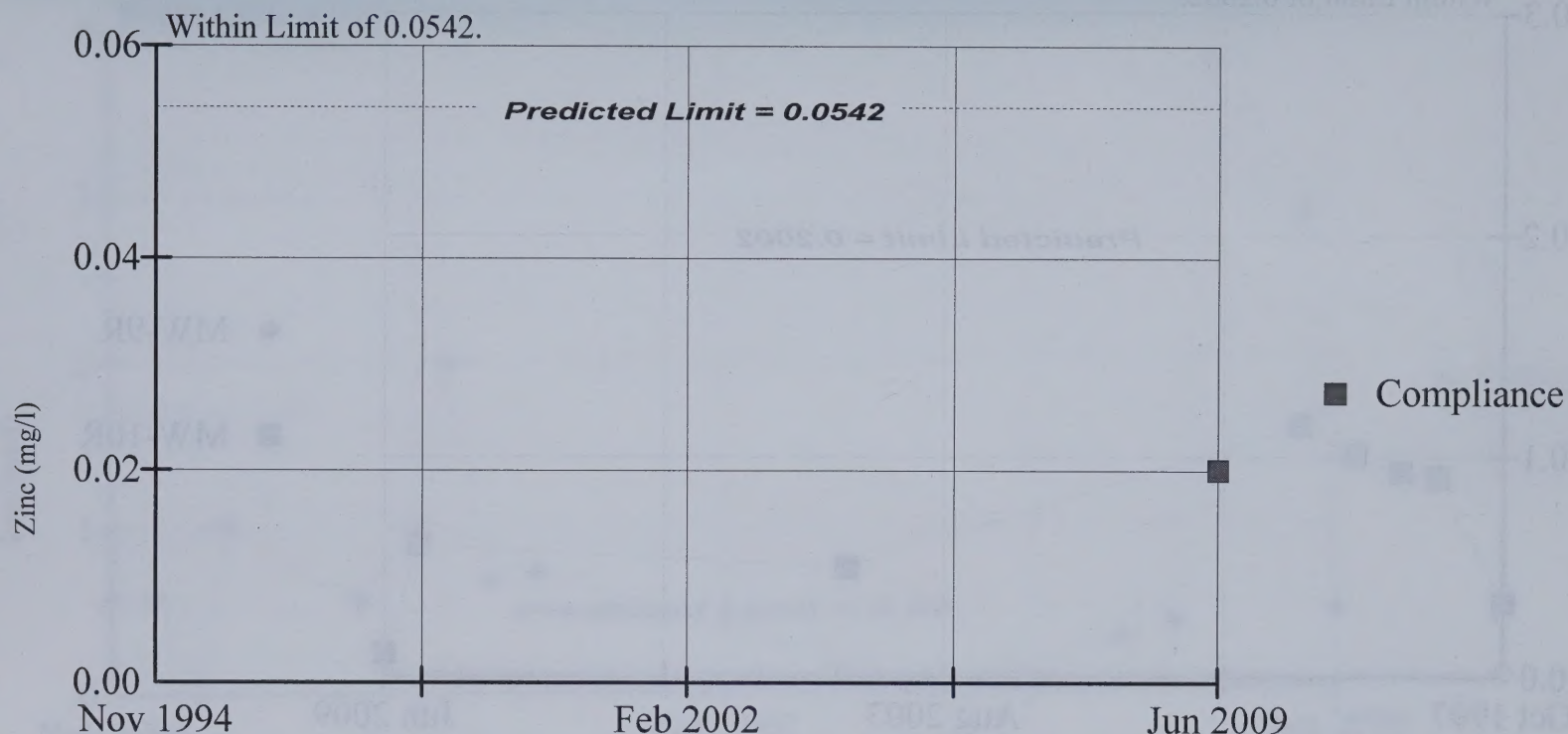
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: (after Aitchison's adjustment) Mean=0.073, Std. Dev=0.063, 25% nds, 8 obs., 3 wells. Normality test used: Shapiro Wilk. W Statistic for background data = 0.922, W Quantile = 0.818. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit. Hollow symbols indicate censored values.

Figure F-21: Prediction Interval Analysis for Selenium in Shallow Wells

PARAMETRIC INTRA-WELL PREDICTION INTERVAL House



Background Data Summary: Mean=0.031, Std. Dev=0.013, 6.667% nds, 15 obs. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9458, W Quantile = 0.881. Testwise alpha = 0.05.

Figure F-22: Background Analysis for Zinc in MW-HW

Office Exceeds Limit of 0.05309.

Zinc (mg/l)

Predicted Limit = 0.05309

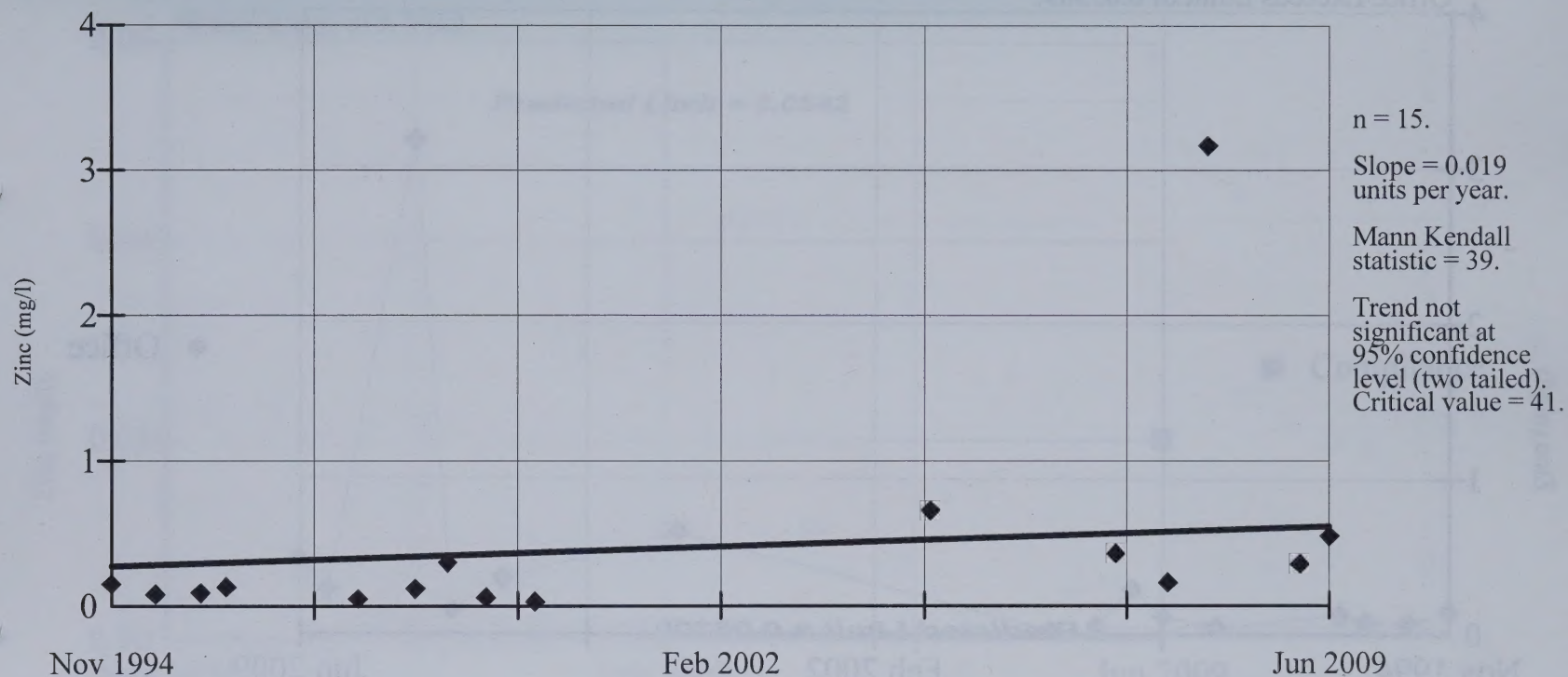
◆ Office

Date	Zinc (mg/l)
Nov 1994	0.15
Dec 1994	0.08
Jan 1995	0.08
Feb 1995	0.12
Mar 1995	0.05
Apr 1995	0.05
May 1995	0.05
Jun 1995	0.10
Jul 1995	0.30
Aug 1995	0.05
Sep 1995	0.02
Oct 1995	0.02
Nov 1995	0.02
Dec 1995	0.02
Jan 1996	0.02
Feb 1996	0.02
Mar 1996	0.02
Apr 1996	0.02
May 1996	0.02
Jun 1996	0.02
Jul 1996	0.02
Aug 1996	0.02
Sep 1996	0.02
Oct 1996	0.02
Nov 1996	0.02
Dec 1996	0.02
Jan 1997	0.02
Feb 1997	0.02
Mar 1997	0.02
Apr 1997	0.02
May 1997	0.02
Jun 1997	0.02
Jul 1997	0.02
Aug 1997	0.02
Sep 1997	0.02
Oct 1997	0.02
Nov 1997	0.02
Dec 1997	0.02
Jan 1998	0.02
Feb 1998	0.02
Mar 1998	0.02
Apr 1998	0.02
May 1998	0.02
Jun 1998	0.02
Jul 1998	0.02
Aug 1998	0.02
Sep 1998	0.02
Oct 1998	0.02
Nov 1998	0.02
Dec 1998	0.02
Jan 1999	0.02
Feb 1999	0.02
Mar 1999	0.02
Apr 1999	0.02
May 1999	0.02
Jun 1999	0.02
Jul 1999	0.02
Aug 1999	0.02
Sep 1999	0.02
Oct 1999	0.02
Nov 1999	0.02
Dec 1999	0.02
Jan 2000	0.02
Feb 2000	0.02
Mar 2000	0.02
Apr 2000	0.02
May 2000	0.02
Jun 2000	0.02
Jul 2000	0.02
Aug 2000	0.02
Sep 2000	0.02
Oct 2000	0.02
Nov 2000	0.02
Dec 2000	0.02
Jan 2001	0.02
Feb 2001	0.02
Mar 2001	0.02
Apr 2001	0.02
May 2001	0.02
Jun 2001	0.02
Jul 2001	0.02
Aug 2001	0.02
Sep 2001	0.02
Oct 2001	0.02
Nov 2001	0.02
Dec 2001	0.02
Jan 2002	0.02
Feb 2002	0.02
Mar 2002	0.02
Apr 2002	0.02
May 2002	0.02
Jun 2002	0.02
Jul 2002	0.02
Aug 2002	0.02
Sep 2002	0.02
Oct 2002	0.02
Nov 2002	0.02
Dec 2002	0.02
Jan 2003	0.02
Feb 2003	0.02
Mar 2003	0.02
Apr 2003	0.02
May 2003	0.02
Jun 2003	0.02
Jul 2003	0.02
Aug 2003	0.02
Sep 2003	0.02
Oct 2003	0.02
Nov 2003	0.02
Dec 2003	0.02
Jan 2004	0.02
Feb 2004	0.02
Mar 2004	0.02
Apr 2004	0.02
May 2004	0.02
Jun 2004	0.02
Jul 2004	0.02
Aug 2004	0.02
Sep 2004	0.02
Oct 2004	0.02
Nov 2004	0.02
Dec 2004	0.02
Jan 2005	0.02
Feb 2005	0.02
Mar 2005	0.02
Apr 2005	0.02
May 2005	0.02
Jun 2005	0.02
Jul 2005	0.02
Aug 2005	0.02
Sep 2005	0.02
Oct 2005	0.02
Nov 2005	0.02
Dec 2005	0.02
Jan 2006	

Background Data Summary: Mean=0.03, Std. Dev=0.013, 6.25% nds, 16 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.944, W Quantile = 0.887. Testwise alpha = 0.05 Most recent point compared to limit.

Figure F-23: Prediction Interval Analysis for Zinc in Deep Wells

SEN'S SLOPE ESTIMATOR Office



SEN'S SLOPE ESTIMATOR Office

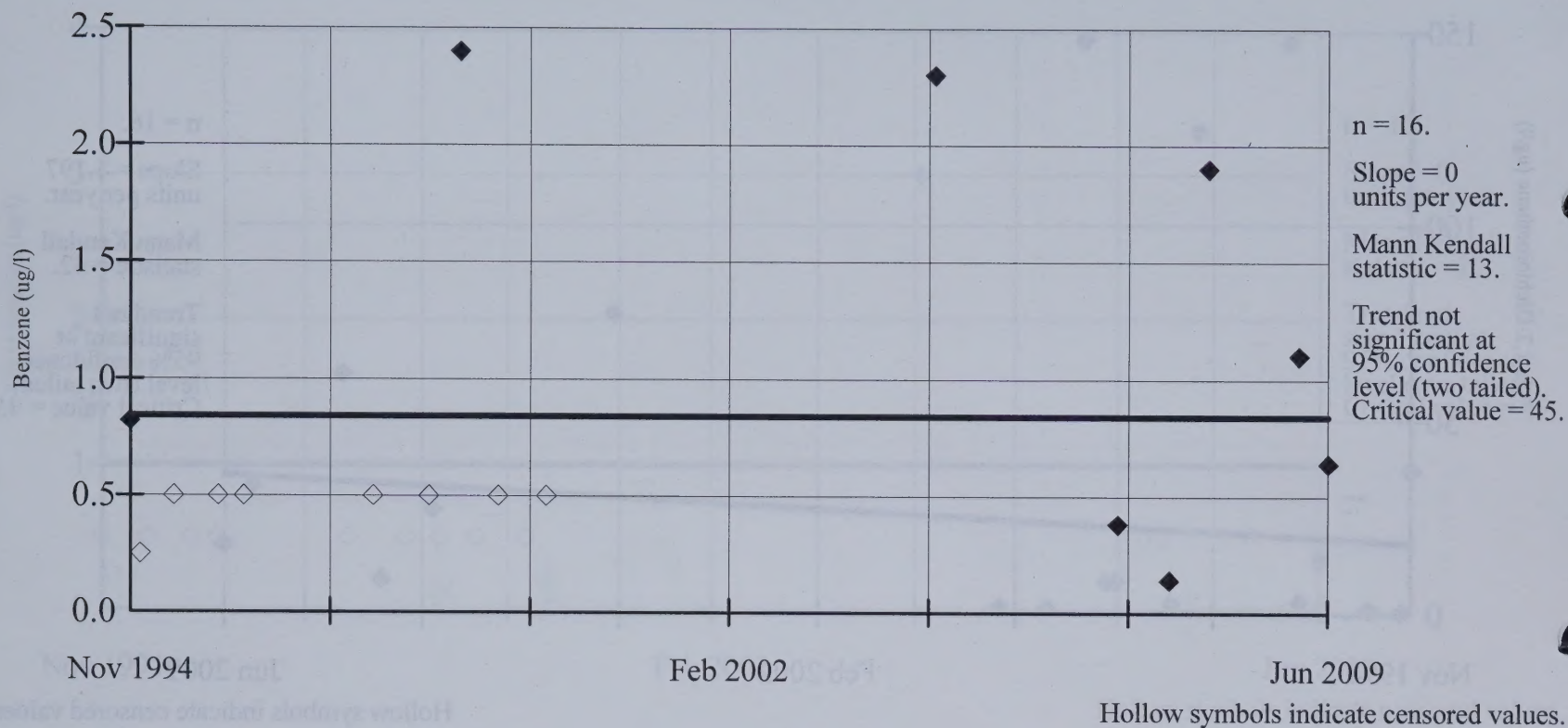


Figure F-25: Trend Analysis for Benzene in MW-OW

SEN'S SLOPE ESTIMATOR Office

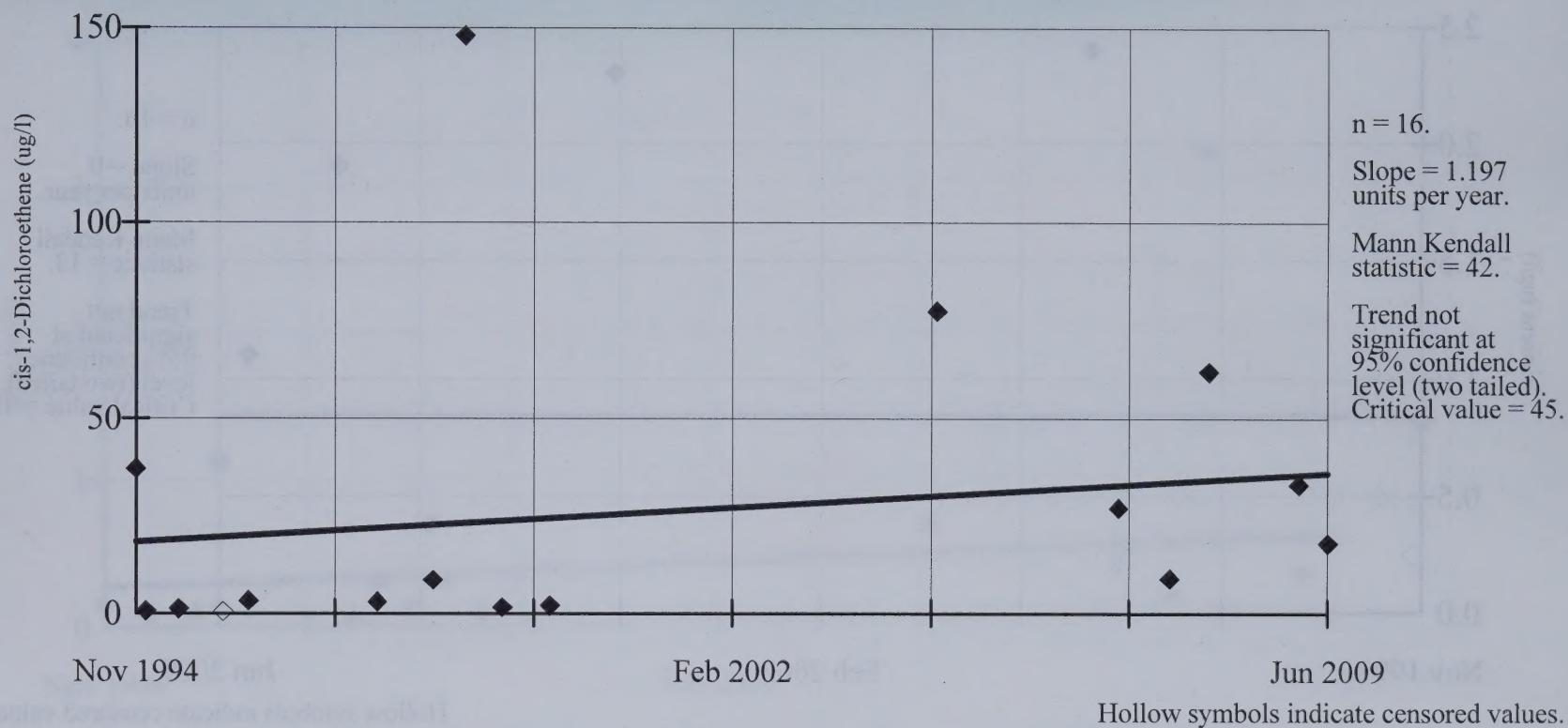


Figure F-26: Trend Analysis for cis-1,2-Dichloroethene in MW-OW

Office

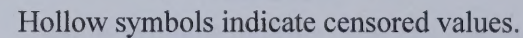


Figure F-27: Trend Analysis for Ethyl benzene in MW-OW

Office

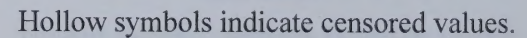


Figure F-28: Trend Analysis for Styrene in MW-OW

SEN'S SLOPE ESTIMATOR Office

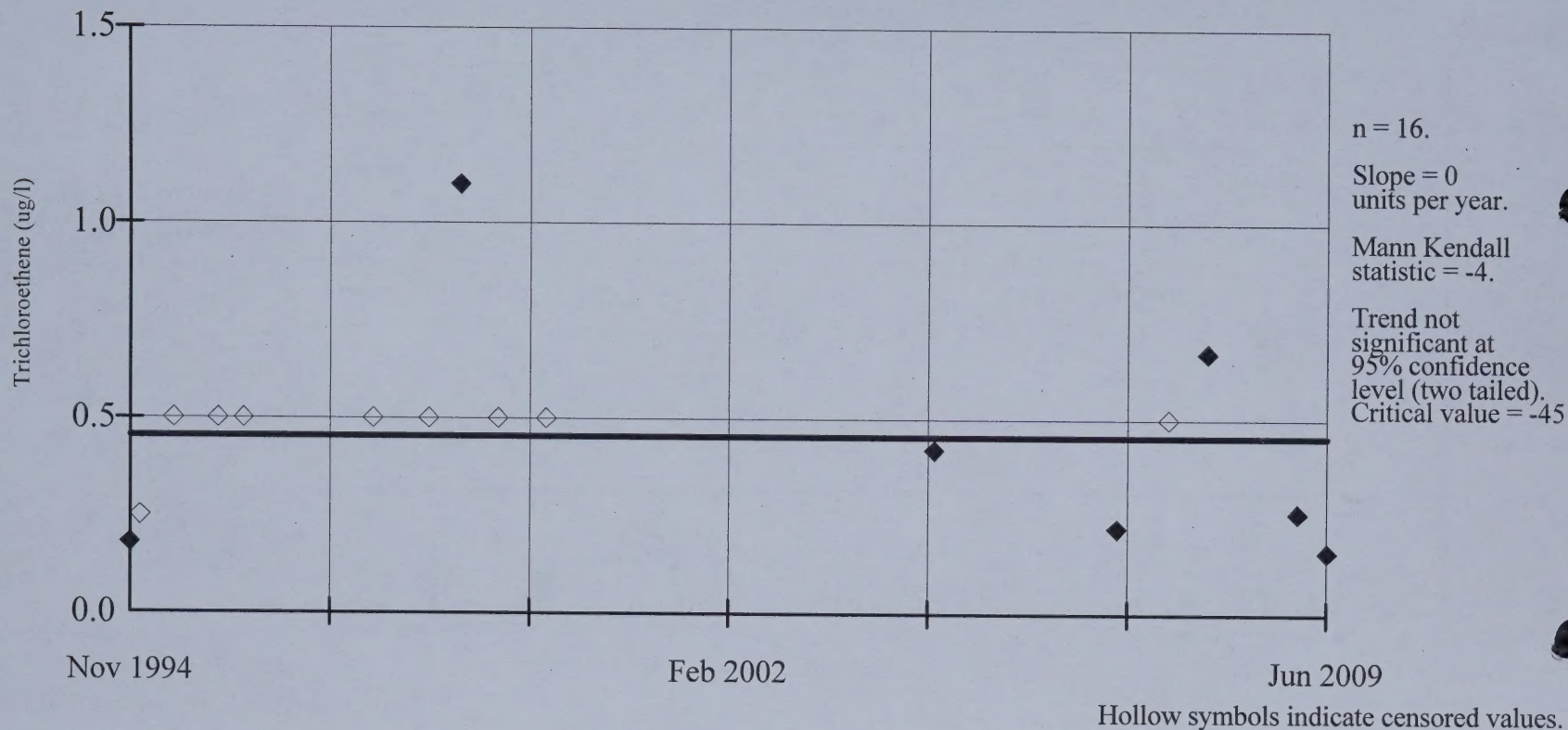


Figure F-29: Trend Analysis for Trichloroethene in MW-OW

SEN'S SLOPE ESTIMATOR Office

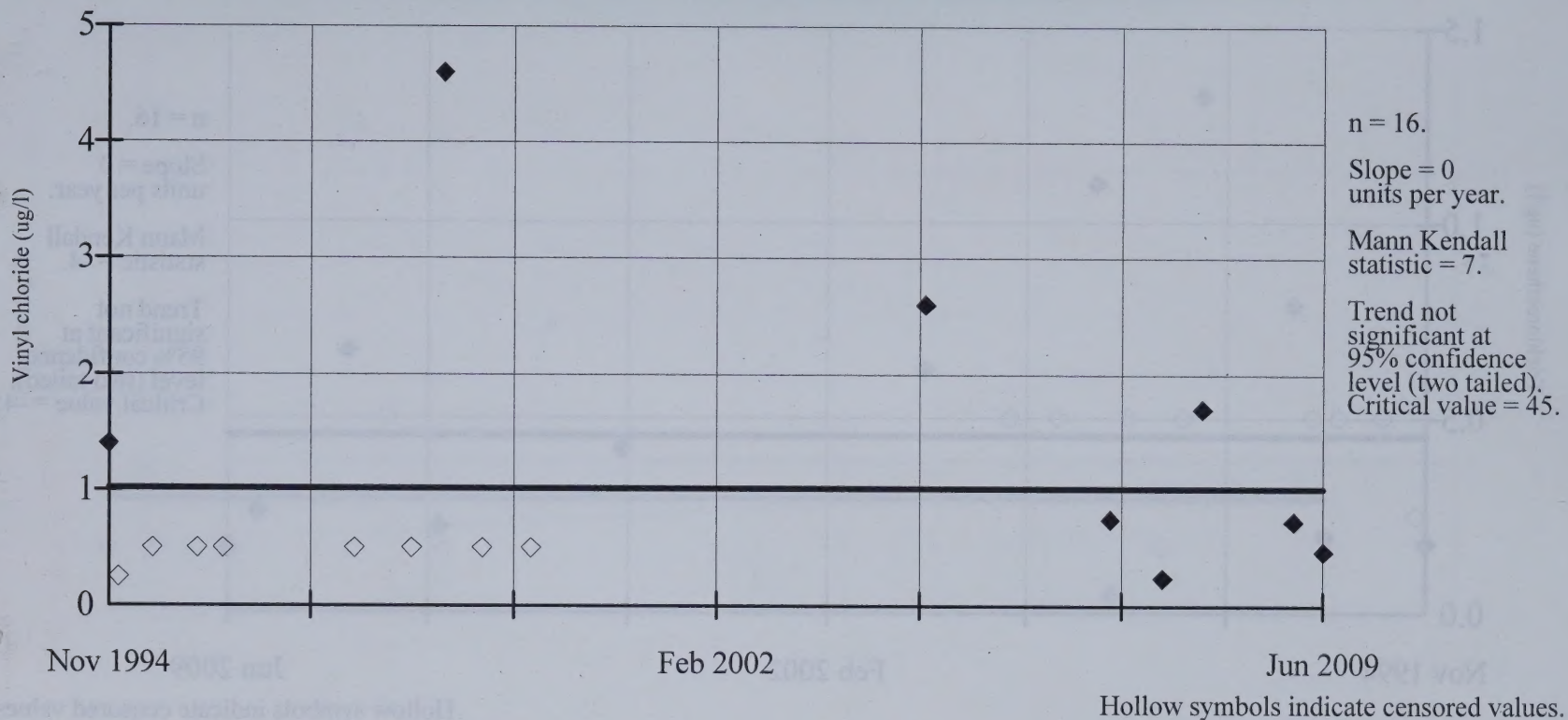


Figure F-30: Trend Analysis for Vinyl chloride in MW-OW



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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

ANALYTICAL SUMMARY REPORT

June 29, 2009

MT DEQ
PO Box 200901
Helena, MT 59620-0901

Workorder No.: H09060101
Project Name: Mister M Landfill

RECEIVED

JUL 02 2009

Dept. of Enviro. Quality
Waste & Underground
Tank Management Bureau

Energy Laboratories Inc received the following 11 samples for MT DEQ on 6/5/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09060101-001	Mr M-HW	06/01/09 14:20	06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-002	Mr M-MW-DW <i>MW-OW</i>	06/01/09 15:55	06/05/09	Aqueous	Same As Above
H09060101-003	Mr M-MW-DW-D <i>MW-OW-DWP</i>	06/01/09 16:05	06/05/09	Aqueous	Same As Above
H09060101-004	Mr M-LS-01	06/01/09 17:00	06/05/09	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Conductivity Mercury, Total Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH Metals Digestion by EPA 200.2 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-005	Mr M-MW-10R	06/02/09 13:00	06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-006	MrM-MW-9R	06/02/09 14:50	06/05/09	Aqueous	Same As Above
H09060101-007	MrM-LS-02	06/02/09 17:55	06/05/09	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Conductivity Mercury, Total Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH Metals Digestion by EPA 200.2 8260-Volatile Organic Comp, 40 CFR Part 258 App I



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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

ANALYTICAL SUMMARY REPORT

H09060101-008 MrM-MW-9 MW-5	06/03/09 7:50 06/05/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09060101-009 MrM-Pond	06/04/09 18:05 06/05/09	Aqueous	8260-Volatile Organic Compounds-Short List
H09060101-010 MrM-DW-VOC MW-DW-VOC	06/05/09 8:30 06/05/09	Aqueous	Same As Above
H09060101-011 Trip Blank	06/01/09 14:20 06/05/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: Amanda Blackmon

ANALYTICAL SUMMARY REPORT

ANALYST	DATE	TEST	RESULT	REMARKS
John Doe	10/25/2023	GC/MS	0.15%	Sample 1
John Doe	10/25/2023	GC/MS	0.12%	Sample 2
John Doe	10/25/2023	GC/MS	0.18%	Sample 3
John Doe	10/25/2023	GC/MS	0.14%	Sample 4
John Doe	10/25/2023	GC/MS	0.16%	Sample 5
John Doe	10/25/2023	GC/MS	0.13%	Sample 6
John Doe	10/25/2023	GC/MS	0.17%	Sample 7
John Doe	10/25/2023	GC/MS	0.15%	Sample 8
John Doe	10/25/2023	GC/MS	0.14%	Sample 9
John Doe	10/25/2023	GC/MS	0.16%	Sample 10

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.15%
 REMARKS: Sample 1

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.12%
 REMARKS: Sample 2

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.18%
 REMARKS: Sample 3

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.14%
 REMARKS: Sample 4

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.16%
 REMARKS: Sample 5

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.13%
 REMARKS: Sample 6

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.17%
 REMARKS: Sample 7

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.15%
 REMARKS: Sample 8

ANALYST: John Doe
 DATE: 10/25/2023
 TEST: GC/MS
 RESULT: 0.14%
 REMARKS: Sample 9



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-001
Client Sample ID: Mr M-HW

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	06/05/09 16:36 / hm
Conductivity	773	umhos/cm		1		A2510 B	06/08/09 13:45 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:37 / eli-b
Chloride	10	mg/L		1		E300.0	06/17/09 02:20 / hm
Sulfate	37	mg/L		1		E300.0	06/17/09 02:20 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.17	mg/L		0.05		E353.2	06/09/09 17:02 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:22 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:22 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:22 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	06/11/09 19:46 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:22 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 19:46 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 19:46 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 19:46 / eli-b
Selenium	0.005	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 19:46 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 19:46 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:22 / eli-b
Zinc	0.02	mg/L		0.01		E200.7	06/11/09 18:22 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: **MT CRO**
 Project: **Water Analysis**
 Lab ID: **W000000001**
 Chain Sample ID: **W-M-100**
 Report Date: **10/20/2010**
 Collection Date: **10/19/2010**
 Description: **Water Analysis**
 Station Name:

Analysis	Result	Unit	Comment	Method	Reference
PHYSICAL PROPERTIES					
Color	15	PCU			
Turbidity	0.5	NTU			
CHEMISTRY					
Calcium	100	mg/L			
Magnesium	10	mg/L			
Total Hardness	110	mg/L			
ANIONIC CHEMISTRY					
Chloride	10	mg/L			
Sulfate	10	mg/L			
CATIONIC CHEMISTRY					
Sodium	10	mg/L			
Potassium	10	mg/L			
Ammonia	10	mg/L			
Nitrate	10	mg/L			
Phosphate	10	mg/L			
Fluoride	10	mg/L			
Iron	10	mg/L			
Copper	10	mg/L			
Zinc	10	mg/L			
Lead	10	mg/L			
Cadmium	10	mg/L			
Mercury	10	mg/L			
Chromium	10	mg/L			
Manganese	10	mg/L			
Selenium	10	mg/L			
Vanadium	10	mg/L			
Nickel	10	mg/L			
Cobalt	10	mg/L			
Molybdenum	10	mg/L			
Barium	10	mg/L			
Strontium	10	mg/L			
Aluminum	10	mg/L			
Silica	10	mg/L			
Boron	10	mg/L			
Lithium	10	mg/L			
Sodium	10	mg/L			
Potassium	10	mg/L			
Ammonia	10	mg/L			
Nitrate	10	mg/L			
Phosphate	10	mg/L			
Fluoride	10	mg/L			
Iron	10	mg/L			
Copper	10	mg/L			
Zinc	10	mg/L			
Lead	10	mg/L			
Cadmium	10	mg/L			
Mercury	10	mg/L			
Chromium	10	mg/L			
Manganese	10	mg/L			
Selenium	10	mg/L			
Vanadium	10	mg/L			
Nickel	10	mg/L			
Cobalt	10	mg/L			
Molybdenum	10	mg/L			
Barium	10	mg/L			
Strontium	10	mg/L			
Aluminum	10	mg/L			
Silica	10	mg/L			
Boron	10	mg/L			
Lithium	10	mg/L			



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
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LABORATORY ANALYTICAL REPORT

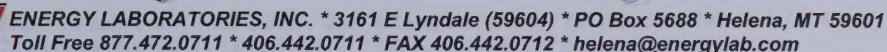
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-001
Client Sample ID: Mr M-HW

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 13:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 13:56 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	06/08/09 13:56 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-001
Client Sample ID: Mr M-HW

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
DateReceived: 06/05/09
Matrix: Aqueous

[illegible]

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-002
Client Sample ID: Mr M-MW-DW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
Date Received: 06/05/09
Matrix: Aqueous

MW-OW

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.6	s.u.		0.1		A4500-H B	06/05/09 16:37 / hm
Conductivity	654	umhos/cm		1		A2510 B	06/08/09 13:46 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:39 / eli-b
Chloride	51	mg/L		1		E300.0	06/17/09 03:09 / hm
Sulfate	ND	mg/L		1		E300.0	06/17/09 03:09 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	9	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/09/09 17:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:29 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:29 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:29 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 19:50 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
Iron	0.47	mg/L		0.03		E200.7	06/11/09 18:29 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 19:50 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 19:50 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 19:50 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 19:50 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 19:50 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:29 / eli-b
Zinc	0.48	mg/L		0.01		E200.7	06/11/09 18:29 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Benzene	0.61	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Report Date: 08/01/2012
 Collection Date: 08/01/2012
 Date of Report: 08/01/2012
 Report Author:

WQ-01

Client Sample ID: MT-001-01
 Name: M. M. M. M.
 Project: M. M. M. M.
 Date: 08/01/2012

Analysis	Test Name	Quantity	Unit	Result	Method	Analysis Description
PHYSICAL PROPERTIES						
Color	Visual	g/L	g/L	0.1	Visual	Visual
Odor	Visual	g/L	g/L	0.1	Visual	Visual
COMPOSITION						
Carbon	Carbon	g/L	g/L	0.1	Carbon	Carbon
Hydrogen	Hydrogen	g/L	g/L	0.1	Hydrogen	Hydrogen
TOXICITY PROPERTIES						
Acute Toxicity	Acute Toxicity	g/L	g/L	0.1	Acute Toxicity	Acute Toxicity
WATER QUALITY						
Water Quality	Water Quality	g/L	g/L	0.1	Water Quality	Water Quality
WATER QUALITY ANALYSIS						
Ammonia	Ammonia	g/L	g/L	0.1	Ammonia	Ammonia
Chlorine	Chlorine	g/L	g/L	0.1	Chlorine	Chlorine
Fluoride	Fluoride	g/L	g/L	0.1	Fluoride	Fluoride
Iron	Iron	g/L	g/L	0.1	Iron	Iron
Manganese	Manganese	g/L	g/L	0.1	Manganese	Manganese
Nitrate	Nitrate	g/L	g/L	0.1	Nitrate	Nitrate
Phosphate	Phosphate	g/L	g/L	0.1	Phosphate	Phosphate
Sulfate	Sulfate	g/L	g/L	0.1	Sulfate	Sulfate
Total Hardness	Total Hardness	g/L	g/L	0.1	Total Hardness	Total Hardness
Total Solids	Total Solids	g/L	g/L	0.1	Total Solids	Total Solids
Total Suspended Solids	Total Suspended Solids	g/L	g/L	0.1	Total Suspended Solids	Total Suspended Solids
Total Dissolved Solids	Total Dissolved Solids	g/L	g/L	0.1	Total Dissolved Solids	Total Dissolved Solids
Water Quality Index	Water Quality Index	g/L	g/L	0.1	Water Quality Index	Water Quality Index
WATER QUALITY ANALYSIS						
Ammonia	Ammonia	g/L	g/L	0.1	Ammonia	Ammonia
Chlorine	Chlorine	g/L	g/L	0.1	Chlorine	Chlorine
Fluoride	Fluoride	g/L	g/L	0.1	Fluoride	Fluoride
Iron	Iron	g/L	g/L	0.1	Iron	Iron
Manganese	Manganese	g/L	g/L	0.1	Manganese	Manganese
Nitrate	Nitrate	g/L	g/L	0.1	Nitrate	Nitrate
Phosphate	Phosphate	g/L	g/L	0.1	Phosphate	Phosphate
Sulfate	Sulfate	g/L	g/L	0.1	Sulfate	Sulfate
Total Hardness	Total Hardness	g/L	g/L	0.1	Total Hardness	Total Hardness
Total Solids	Total Solids	g/L	g/L	0.1	Total Solids	Total Solids
Total Suspended Solids	Total Suspended Solids	g/L	g/L	0.1	Total Suspended Solids	Total Suspended Solids
Total Dissolved Solids	Total Dissolved Solids	g/L	g/L	0.1	Total Dissolved Solids	Total Dissolved Solids
Water Quality Index	Water Quality Index	g/L	g/L	0.1	Water Quality Index	Water Quality Index



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-002
Client Sample ID: Mr M-MW-DW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
Date Received: 06/05/09
Matrix: Aqueous

MW-DW

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Ethylbenzene	0.39	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:26 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Styrene	0.61	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Trichloroethene	0.16	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Vinyl chloride	0.48	ug/L	J	1.0		SW8260B	06/08/09 14:26 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 14:26 / abb
Surr: 1,2-Dichloroethane-d4	101	%REC		70-130		SW8260B	06/08/09 14:26 / abb

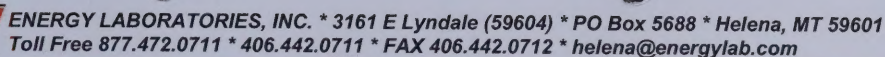
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-002
Client Sample ID: Mr M-MW-DW

Report Date: 06/24/09
Collection Date: 06/01/09 15:55
DateReceived: 06/05/09
Matrix: Aqueous

MW-OW

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	84.0	%REC		70-130		SW8260B	06/08/09 14:26 / abb
Surr: p-Bromofluorobenzene	108	%REC		70-130		SW8260B	06/08/09 14:26 / abb
Surr: Toluene-d8	105	%REC		70-130		SW8260B	06/08/09 14:26 / abb
NON-HALOGENATED							
Acetone	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Butanol	21	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Hexane	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
HALOGENATED							
Chloroform	1	mg/L		1		SW8260B	06/08/09 14:26 / abb
PHENOLIC							
Phenol	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
METALLIC COMPOUNDS							
Aluminum	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Barium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Boron	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Bromine	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Calcium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Chromium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Copper	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Fluorine	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Iron	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Lead	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Magnesium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Manganese	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Mercury	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Nickel	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Phosphorus	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Potassium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Selenium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Silver	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Sulfur	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Vanadium	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Zinc	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
VOLATILE ORGANIC COMPOUNDS							
Acetone	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Butanol	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Hexane	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Chloroform	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Dibromofluoromethane	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
p-Bromofluorobenzene	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Toluene-d8	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb
Trifluoromethane	100	mg/L		1000		SW8260B	06/08/09 14:26 / abb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: **WV-04**
 Project: **WV-04**
 Lab #: **WV-04**
 Date Sampled: **10/10/04**
 Report Date: **10/10/04**
 Collection Date: **10/10/04**
 Distribution: **WV-04**
 Sample Location: **WV-04**

Parameter	Unit	Result	Method	Notes
VOLENE (VOLUME) (mL)	mL	10.00	10.00	
WATER (WATER) (mL)	mL	10.00	10.00	
WATER (WATER) (mL)	mL	10.00	10.00	
WATER (WATER) (mL)	mL	10.00	10.00	



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-003
Client Sample ID: Mr M-MW-DW-D

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
Date Received: 06/05/09
Matrix: Aqueous

MW-OW-Dup

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	06/05/09 16:38 / hm
Conductivity	649	umhos/cm		1		A2510 B	06/08/09 13:47 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:41 / eli-b
Chloride	51	mg/L		1		E300.0	06/17/09 03:26 / hm
Sulfate	ND	mg/L		1		E300.0	06/17/09 03:26 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	8	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/09/09 17:06 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:33 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:33 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:33 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:10 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
Iron	0.47	mg/L		0.03		E200.7	06/11/09 18:33 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:10 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:10 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:10 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:10 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:10 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:33 / eli-b
Zinc	0.48	mg/L		0.01		E200.7	06/11/09 18:33 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Benzene	0.67	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-003
Client Sample ID: Mr M-MW-DW-D

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
Date Received: 06/05/09
Matrix: Aqueous

MW-DW-D

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
cis-1,2-Dichloroethene	18	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Ethylbenzene	0.30	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 14:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Styrene	0.55	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Trichloroethene	0.16	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Vinyl chloride	0.46	ug/L	J	1.0		SW8260B	06/08/09 14:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 14:56 / abb
Surr: 1,2-Dichloroethane-d4	106	%REC		70-130		SW8260B	06/08/09 14:56 / abb

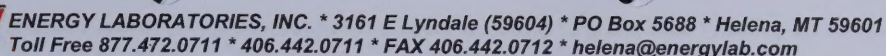
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-003
Client Sample ID: Mr M-MW-DW-D

MW-OW-D

Report Date: 06/24/09
Collection Date: 06/01/09 16:05
DateReceived: 06/05/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

44-0410

Client: MT DEP
 Project: State M-100
 Lab ID: 100001-00
 Client Sample ID: MT-M-100-042

Report Date: 08/20/08
 Collection Date: 08/10/08
 Location: 100001-00
 Matrix: Airborne

Compound	Peak Area	Quantity (L)	MCL	Method	Sample Size (g)
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VOLATILE ORGANIC COMPOUNDS

MT-M-100-042	10.10	10.10	10.10	10.10	10.10
MT-M-100-042	10.10	10.10	10.10	10.10	10.10
MT-M-100-042	10.10	10.10	10.10	10.10	10.10



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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-004
Client Sample ID: Mr M-LS-01

Report Date: 06/24/09
Collection Date: 06/01/09 17:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.0	s.u.		0.1		A4500-H B	06/05/09 16:39 / hm
Conductivity	3980	umhos/cm		1		A2510 B	06/08/09 13:48 / sld
INORGANICS							
Chloride	430	mg/L		1		E300.0	06/17/09 03:42 / hm
Sulfate	110	mg/L	D	2		E300.0	06/17/09 03:42 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	510	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.12	mg/L		0.05		E353.2	06/09/09 17:12 / stp
METALS, TOTAL							
Antimony	ND	mg/L		0.05		E200.8	06/15/09 21:43 / eli-b
Arsenic	0.008	mg/L		0.005		E200.8	06/16/09 19:03 / eli-b
Barium	0.3	mg/L		0.1		E200.7	06/10/09 20:45 / eli-b
Beryllium	ND	mg/L		0.001		E200.8	06/15/09 21:43 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	06/15/09 21:43 / eli-b
Chromium	0.02	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
Cobalt	0.02	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
Copper	0.04	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
Iron	53.8	mg/L		0.03		E200.7	06/10/09 20:45 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
Mercury	ND	mg/L		0.001		E245.1	06/11/09 13:06 / eli-b2
Nickel	0.14	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/15/09 21:43 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/15/09 21:43 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/15/09 21:43 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/10/09 20:45 / eli-b
Zinc	0.13	mg/L		0.01		E200.8	06/15/09 21:43 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	13	ug/L	J	20		SW8260B	06/08/09 16:25 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 16:25 / abb
Benzene	0.40	ug/L	J	1.0		SW8260B	06/08/09 16:25 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
J - Estimated value. The analyte was present but less than reporting limit.



LABORATORY ANALYTICAL REPORT

Client: **MT 002**
 Project: **Water in Leach**
 Lab ID: **1000000001**
 Client Sample ID: **W-100-01**
 Report Date: **10/24/00**
 Collection Date: **10/20/00**
 Date Analyzed: **10/25/00**
 Method: **Standard**

Parameter	Result	Unit	Method	Analysis Date
PHYSICAL PROPERTIES				
Color	1.0	APHA	APHA 1500-10	10/25/00
Transmittance	99.0	%	APHA 1500-10	10/25/00
INORGANICS				
Chloride	100	mg/L	APHA 100-10	10/25/00
Sulfate	100	mg/L	APHA 100-10	10/25/00
ADDITIONAL ANALYTES				
Organic Carbon (TOC)	100	mg/L	APHA 100-10	10/25/00
HEAVY METALS				
Mercury (Total)	0.05	mg/L	APHA 100-10	10/25/00
TRACE ORGANIC COMPOUNDS				
Lead	1.0	mg/L	APHA 100-10	10/25/00
Cadmium	0.1	mg/L	APHA 100-10	10/25/00
Chromium	0.1	mg/L	APHA 100-10	10/25/00
Copper	0.1	mg/L	APHA 100-10	10/25/00
Iron	0.1	mg/L	APHA 100-10	10/25/00
Manganese	0.1	mg/L	APHA 100-10	10/25/00
Nickel	0.1	mg/L	APHA 100-10	10/25/00
Silver	0.1	mg/L	APHA 100-10	10/25/00
Zinc	0.1	mg/L	APHA 100-10	10/25/00
Barium	0.1	mg/L	APHA 100-10	10/25/00
Bismuth	0.1	mg/L	APHA 100-10	10/25/00
Antimony	0.1	mg/L	APHA 100-10	10/25/00
Vanadium	0.1	mg/L	APHA 100-10	10/25/00
Chlorine	0.1	mg/L	APHA 100-10	10/25/00
Fluorine	0.1	mg/L	APHA 100-10	10/25/00
Carbon	0.1	mg/L	APHA 100-10	10/25/00
Nitrogen	0.1	mg/L	APHA 100-10	10/25/00
Oxygen	0.1	mg/L	APHA 100-10	10/25/00
Hydrogen	0.1	mg/L	APHA 100-10	10/25/00
Helium	0.1	mg/L	APHA 100-10	10/25/00
Neon	0.1	mg/L	APHA 100-10	10/25/00
Argon	0.1	mg/L	APHA 100-10	10/25/00
Krypton	0.1	mg/L	APHA 100-10	10/25/00
Xenon	0.1	mg/L	APHA 100-10	10/25/00
Radium	0.1	mg/L	APHA 100-10	10/25/00
Thorium	0.1	mg/L	APHA 100-10	10/25/00
Uranium	0.1	mg/L	APHA 100-10	10/25/00
Plutonium	0.1	mg/L	APHA 100-10	10/25/00
Americium	0.1	mg/L	APHA 100-10	10/25/00
Curium	0.1	mg/L	APHA 100-10	10/25/00
Berkelium	0.1	mg/L	APHA 100-10	10/25/00
Californium	0.1	mg/L	APHA 100-10	10/25/00
Einsteinium	0.1	mg/L	APHA 100-10	10/25/00
Fermium	0.1	mg/L	APHA 100-10	10/25/00
Mendelevium	0.1	mg/L	APHA 100-10	10/25/00
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Lanthanum	0.1	mg/L	APHA 100-10	10/25/00
Cerium	0.1	mg/L	APHA 100-10	10/25/00
Praseodymium	0.1	mg/L	APHA 100-10	10/25/00
Neodymium	0.1	mg/L	APHA 100-10	10/25/00
Europium	0.1	mg/L	APHA 100-10	10/25/00
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Tungsten	0.1	mg/L	APHA 100-10	10/25/00
Rhenium	0.1	mg/L	APHA 100-10	10/25/00
Osmium	0.1	mg/L	APHA 100-10	10/25/00
Iridium	0.1	mg/L	APHA 100-10	10/25/00
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Cerium	0.1	mg/L	APHA 100-10	10/25/00
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Europium	0.1	mg/L	APHA 100-10	10/25/00
Gadolinium	0.1	mg/L	APHA 100-10	10/25/00
Terbium	0.1	mg/L	APHA 100-10	10/25/00
Dysprosium	0.1	mg/L	APHA 100-10	10/25/00
Ytterbium	0.1	mg/L	APHA 100-10	10/25/00



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-004
Client Sample ID: Mr M-LS-01

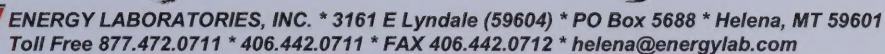
Report Date: 06/24/09
Collection Date: 06/01/09 17:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
cis-1,2-Dichloroethene	1.6	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Ethylbenzene	1.4	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 16:25 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 16:25 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 16:25 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Toluene	0.26	ug/L	J	1.0		SW8260B	06/08/09 16:25 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
m+p-Xylenes	1.1	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
o-Xylene	1.2	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Xylenes, Total	2.3	ug/L		1.0		SW8260B	06/08/09 16:25 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	06/08/09 16:25 / abb
Surr: Dibromofluoromethane	84.0	%REC		70-130		SW8260B	06/08/09 16:25 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



Report Date: 06/24/09
Collection Date: 06/01/09 17:00
DateReceived: 06/05/09
Matrix: Aqueous

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 05/05/09
 Collection Date: 05/01/09 11:00
 Collection Location: 05/05/09
 Client Name: Electric Company

Client Name: Electric Company
 Project: 1001 E. 12th Street
 Lab ID: 1001 E. 12th Street
 Client Sample ID: 1001 E. 12th Street

Analysis	Units	Location	Depth	Notes	Analysis Date
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ANALYSIS OF ORGANIC COMPOUNDS
 Total Petroleum Hydrocarbons (TPH)
 Total Aromatic Hydrocarbons (TAH)

TPH	mg/L	1001 E. 12th Street	0-10 cm	0.5 mg/L	05/05/09
TAH	mg/L	1001 E. 12th Street	0-10 cm	0.1 mg/L	05/05/09



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.7	s.u.		0.1		A4500-H B	06/05/09 16:40 / hm
Conductivity	1020	umhos/cm		1		A2510 B	06/08/09 13:49 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 11:42 / eli-b
Chloride	23	mg/L		1		E300.0	06/17/09 03:59 / hm
Sulfate	82	mg/L		1		E300.0	06/17/09 03:59 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	3	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.42	mg/L		0.05		E353.2	06/09/09 17:14 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:37 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Barium	ND	mg/L		0.1		E200.7	06/11/09 18:37 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:37 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:14 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:37 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:14 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:14 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:14 / eli-b
Selenium	0.011	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:14 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:14 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:37 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:37 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

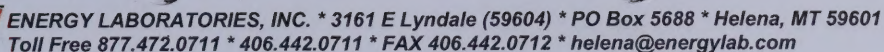
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:23 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/12/09 16:23 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	06/12/09 16:23 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-005
Client Sample ID: Mr M-MW-10R

Report Date: 06/24/09
Collection Date: 06/02/09 13:00
DateReceived: 06/05/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEP
 Project: Water Quality
 Lab ID: H000001-000
 Client Sample ID: W-1000-100
 Report Date: 01/14/09
 Collection Date: 01/13/09
 Date Received: 01/13/09
 Method: EPA 8210

Parameter	Result	Unit	Method	Analysis Date By
VOLATILE ORGANIC COMPOUNDS				
Acetone	1.0	mg/L	8210	01/14/09
Chloroform	1.0	mg/L	8210	01/14/09
1,1-Dichloroethane	1.0	mg/L	8210	01/14/09
1,2-Dichloroethane	1.0	mg/L	8210	01/14/09
1,1,1-Trichloroethane	1.0	mg/L	8210	01/14/09
1,1,2-Trichloroethane	1.0	mg/L	8210	01/14/09
1,2-Dichlorobenzene	1.0	mg/L	8210	01/14/09
1,4-Dichlorobenzene	1.0	mg/L	8210	01/14/09
1,2,4-Trichlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3-Trichlorobenzene	1.0	mg/L	8210	01/14/09
1,2,4,5-Tetrachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,4-Tetrachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,5-Tetrachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,6-Tetrachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,4,6-Tetrachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,4,5-Pentachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,4,6-Pentachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,5,6-Pentachlorobenzene	1.0	mg/L	8210	01/14/09
1,2,3,4,5,6-Hexachlorobenzene	1.0	mg/L	8210	01/14/09
1,1,1,2,2,2-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,1,2,2,3-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,1,2,3,3-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,2,3,3-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,2,3,4-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,2,3,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,2,3,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,3,4-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,3,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,3,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,3,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,4,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,4,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,2,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,3,4,4-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,3,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,3,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,3,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,3,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,4,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,4,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,3,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,4,5,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,4,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,4,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,5,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,1,6,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,3,4-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,3,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,3,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,3,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,4,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,4,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,4,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,2,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,3,4,4-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,3,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,3,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,3,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,3,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,4,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,4,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,3,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,4,5,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,4,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,4,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,5,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,2,6,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,4,4,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,4,4,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,4,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,3,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,4,5,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,4,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,4,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,4,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,5,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,3,6,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,4,5,5,5-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,4,5,5,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,4,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,4,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,5,5,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,4,6,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,5,5,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09
1,6,6,6,6,6-Hexachloroethane	1.0	mg/L	8210	01/14/09



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

Report Date: 06/24/09
Collection Date: 06/02/09 14:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	06/05/09 16:42 / hm
Conductivity	952	umhos/cm		1		A2510 B	06/08/09 13:50 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 12:39 / eli-b
Chloride	24	mg/L		1		E300.0	06/17/09 04:15 / hm
Sulfate	75	mg/L		1		E300.0	06/17/09 04:15 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	7	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	3.47	mg/L		0.05		E353.2	06/09/09 17:16 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:41 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Barium	0.1	mg/L		0.1		E200.7	06/11/09 18:41 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:41 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	06/11/09 20:18 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:41 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:18 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:18 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:18 / eli-b
Selenium	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:18 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:18 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:41 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:41 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

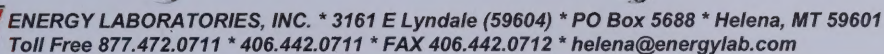
Report Date: 06/24/09
Collection Date: 06/02/09 14:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
cis-1,2-Dichloroethene	7.8	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/12/09 16:52 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Tetrachloroethene	1.2	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Trichloroethene	0.42	ug/L	J	1.0		SW8260B	06/12/09 16:52 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/12/09 16:52 / abb
Surr: 1,2-Dichloroethane-d4	94.0	%REC		70-130		SW8260B	06/12/09 16:52 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

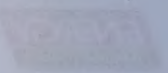


Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-006
Client Sample ID: MrM-MW-9R

Report Date: 06/24/09
Collection Date: 06/02/09 14:50
DateReceived: 06/05/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 05/20/09
 Collection Date: 05/05/09 14:53
 Date/Time Rec'd: 5/10/09
 Matrix: Unknown

Client: MT DCL
 Project: River M. Lab
 Lab ID: 10000101-008
 Client Sample ID: M414W-08

Analysis	Peak Name	Peak Area	Concentration (ppb)	MCU	MCU	Analysis Date (BY)
VOLATILE ORGANIC COMPOUNDS	1,1,1-Trichloroethane	64.5	0.000	7.4-100	0.000	05/20/09 14:53
	1,1-Dichloroethane	100	0.000	7.4-100	0.000	05/20/09 14:53
	1,2-Dichloroethane	700	0.000	7.4-100	0.000	05/20/09 14:53



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-007
Client Sample ID: MrM-LS-02

Report Date: 06/24/09
Collection Date: 06/02/09 17:55
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.3	s.u.		0.1		A4500-H B	06/05/09 16:44 / hm
Conductivity	3350	umhos/cm		1		A2510 B	06/08/09 13:51 / sld
INORGANICS							
Chloride	510	mg/L		1		E300.0	06/17/09 04:31 / hm
Sulfate	97	mg/L	D	2		E300.0	06/17/09 04:31 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	180	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.05	mg/L		0.05		E353.2	06/09/09 17:18 / stp
METALS, TOTAL							
Antimony	ND	mg/L		0.05		E200.8	06/15/09 21:47 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/15/09 21:47 / eli-b
Barium	0.3	mg/L		0.1		E200.7	06/10/09 20:54 / eli-b
Beryllium	ND	mg/L		0.001		E200.8	06/15/09 21:47 / eli-b
Cadmium	0.003	mg/L		0.001		E200.8	06/15/09 21:47 / eli-b
Chromium	ND	mg/L		0.01		E200.8	06/15/09 21:47 / eli-b
Cobalt	0.01	mg/L		0.01		E200.8	06/15/09 21:47 / eli-b
Copper	0.05	mg/L		0.01		E200.8	06/15/09 21:47 / eli-b
Iron	11.8	mg/L		0.03		E200.7	06/10/09 20:54 / eli-b
Lead	0.01	mg/L		0.01		E200.8	06/15/09 21:47 / eli-b
Mercury	ND	mg/L		0.001		E245.1	06/11/09 13:08 / eli-b2
Nickel	0.06	mg/L		0.01		E200.8	06/15/09 21:47 / eli-b
Selenium	0.011	mg/L		0.005		E200.8	06/15/09 21:47 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/15/09 21:47 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/15/09 21:47 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/10/09 20:54 / eli-b
Zinc	0.37	mg/L		0.01		E200.7	06/10/09 20:54 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	26	ug/L		20		SW8260B	06/12/09 17:22 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/12/09 17:22 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEP
Project: Motor Fuel
Lab ID: H000000000
Client Sample ID: H000000000
Report Date: 08/08/08
Collection Date: 08/08/08
Description: 08/08/08
Matrix: Petroleum

Analysis	Result Unit	Concentration	WCL WCL Method	Sample Date/ID
PHYSICAL PROPERTIES				
API	°API	21	ASTM D 156	08/08/08 H000000000
Color	APHA	1	ASTM D 153	08/08/08 H000000000
WAXES				
Waxes	mg/L	1	ASTM D 153	08/08/08 H000000000
Waxes	mg/L	1	ASTM D 153	08/08/08 H000000000
ACCELERANT ANALYSIS				
Accelerant	mg/L	1	ASTM D 153	08/08/08 H000000000
WAXES				
Waxes	mg/L	1	ASTM D 153	08/08/08 H000000000
METALS TOTAL				
Aluminum	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Barium	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Boron	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Bromine	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Calcium	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Chlorine	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Copper	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Fluorine	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Iron	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Magnesium	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Manganese	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Mercury	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Nickel	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Phosphorus	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Potassium	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Silicon	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Sulfur	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Titanium	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Zinc	mg/L	0.01	ASTM D 153	08/08/08 H000000000
NON-ALE ORGANIC COMPOUNDS				
Acetone	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Alcohol	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Aldehyde	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Amine	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Carbonyl	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Chloride	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Cyanide	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Fluoride	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Hydroxide	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Iodide	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Nitrate	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Sulfate	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Thiocyanate	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Urea	mg/L	0.01	ASTM D 153	08/08/08 H000000000
Wax	mg/L	0.01	ASTM D 153	08/08/08 H000000000



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-007
Client Sample ID: MrM-LS-02

Report Date: 06/24/09
Collection Date: 06/02/09 17:55
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,4-Dichlorobenzene	0.66	ug/L	J	1.0		SW8260B	06/12/09 17:22 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Dichlorodifluoromethane	0.55	ug/L	J	1.0		SW8260B	06/12/09 17:22 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
cis-1,2-Dichloroethene	2.0	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Ethylbenzene	0.24	ug/L	J	1.0		SW8260B	06/12/09 17:22 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/12/09 17:22 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 17:22 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/12/09 17:22 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/12/09 17:22 / abb
o-Xylene	0.14	ug/L	J	1.0		SW8260B	06/12/09 17:22 / abb
Xylenes, Total	0.14	ug/L	J	1.0		SW8260B	06/12/09 17:22 / abb
Surr: 1,2-Dichloroethane-d4	101	%REC		70-130		SW8260B	06/12/09 17:22 / abb
Surr: Dibromofluoromethane	90.0	%REC		70-130		SW8260B	06/12/09 17:22 / abb

Report

RL - Analyte reporting limit.

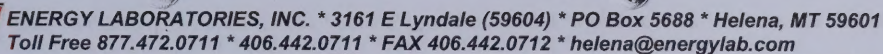
MCL - Maximum contaminant level.

Definitions:

QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: _____	Report Date: 08/20/09
Project: _____	Collection Date: 08/19/09
Lab ID: _____	Date Received: 08/20/09
Client Sample ID: _____	Analysis Request: _____

Analysis	Result	Unit	Method	Notes
VOLEATILE ORGANIC COMPOUNDS				
Gas Chromatography	10.150	ppm	GC/MS	08/19/09 17:22:10
Gas Chromatography	10.150	ppm	GC/MS	08/19/09 17:22:10



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-008
Client Sample ID: MrM-MW-9

MW-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.6	s.u.		0.1		A4500-H B	06/05/09 16:47 / hm
Conductivity	1020	umhos/cm		1		A2510 B	06/08/09 13:52 / sld
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	06/12/09 13:16 / eli-b
Chloride	14	mg/L		1		E300.0	06/17/09 04:48 / hm
Sulfate	55	mg/L		1		E300.0	06/17/09 04:48 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	7	mg/L		1		E410.4	06/12/09 15:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	2.12	mg/L		0.05		E353.2	06/09/09 17:20 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.7	06/11/09 18:44 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Barium	0.1	mg/L		0.1		E200.7	06/11/09 18:44 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	06/11/09 18:44 / eli-b
Cadmium	0.001	mg/L		0.001		E200.8	06/11/09 20:22 / eli-b
Chromium	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Copper	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
Iron	ND	mg/L		0.03		E200.7	06/11/09 18:44 / eli-b
Lead	ND	mg/L		0.01		E200.8	06/11/09 20:22 / eli-b
Mercury	ND	mg/L		0.001		E200.8	06/11/09 20:22 / eli-b
Nickel	ND	mg/L		0.01		E200.8	06/11/09 20:22 / eli-b
Selenium	0.111	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Silver	ND	mg/L		0.005		E200.8	06/11/09 20:22 / eli-b
Thallium	ND	mg/L		0.1		E200.8	06/11/09 20:22 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	06/11/09 18:44 / eli-b
Zinc	ND	mg/L		0.01		E200.7	06/11/09 18:44 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 08/02/05
 Collection Date: 07/28/05
 Collection Time: 08:00
 Sample Agency: Helena

Client: MT DEC
 Project: Metals in Leachate
 Lab ID: H000000-008
 Client Sample ID: H000000-008

W-2

Analysis	Result	Units	Comparison	WCL DCL	Method	Sample Date
PHYSICAL PROPERTIES						
As	7.5	mg		4.1	ASD-112	08/02/05 08:00
Conductivity	100	µmhos/cm		7	ASD-112	08/02/05 08:00
INORGANICS						
Calcium Total	180	mg/L		3000	ASD-112	08/02/05 08:00
Chloride	14	mg/L		7	ASD-112	08/02/05 08:00
Sulfate	14	mg/L		7	ASD-112	08/02/05 08:00
ANIONIC CHROMIUM						
Chromium (Total)	7	mg/L		7	ASD-112	08/02/05 08:00
NUTRIENTS						
Ammonia Nitrogen	1.0	mg/L		0.15	ASD-112	08/02/05 08:00
HEAVY METALS						
Antimony	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Barium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Bismuth	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Boron	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Calcium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Chromium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Copper	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Lead	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Mercury	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Manganese	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Nickel	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Selenium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Silver	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Sodium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Strontium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Tellurium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Vanadium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Zinc	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
ANIONIC CHROMIUM						
Antimony	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Barium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Bismuth	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Boron	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Calcium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Chromium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Copper	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Lead	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Mercury	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Manganese	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Nickel	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Selenium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Silver	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Sodium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Strontium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Tellurium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Vanadium	0.01	mg/L		0.01	ASD-112	08/02/05 08:00
Zinc	0.01	mg/L		0.01	ASD-112	08/02/05 08:00



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-008
Client Sample ID: MrM-MW-9

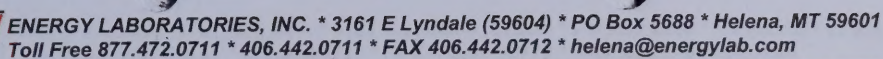
MW-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 15:55 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 15:55 / abb
Surr: 1,2-Dichloroethane-d4	105	%REC		70-130		SW8260B	06/08/09 15:55 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



mw-5

Report Date: 06/24/09
Collection Date: 06/03/09 07:50
DateReceived: 06/05/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

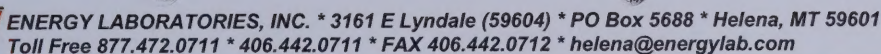
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-009
Client Sample ID: MrM-Pond

Report Date: 06/24/09
Collection Date: 06/04/09 18:05
Date Received: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Bromobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 15:25 / abb
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-009
Client Sample ID: MrM-Pond

Report Date: 06/24/09
Collection Date: 06/04/09 18:05
DateReceived: 06/05/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 15:25 / abb
Surr: Dibromofluoromethane	97.0	%REC		70-130		SW8260B	06/08/09 15:25 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	06/08/09 15:25 / abb
Surr: Toluene-d8	97.0	%REC		70-130		SW8260B	06/08/09 15:25 / abb
Surr: p-Bromofluorobenzene	107	%REC		70-130		SW8260B	06/08/09 15:25 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-010
Client Sample ID: MrM-DW-VOC

Report Date: 06/24/09
Collection Date: 06/05/09 08:30
Date Received: 06/05/09
Matrix: Aqueous

MW-DW-VOC

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	1.2	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Bromobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Chloroform	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
cis-1,2-Dichloroethene	46	ug/L		10		SW8260B	06/13/09 15:48 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Ethylbenzene	2.3	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/12/09 17:51 / abb
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Styrene	1.7	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/12/09 17:51 / abb

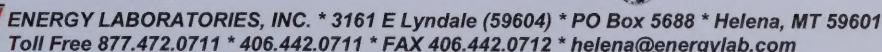
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



MW-OW-VOC

Report Date: 06/24/09
Collection Date: 06/05/09 08:30
DateReceived: 06/05/09
Matrix: Aqueous

Report	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
Definitions:	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	J - Estimated value. The analyte was present but less than the reporting limit.	



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-011
Client Sample ID: Trip Blank

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Benzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromoform	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Chloroform	0.34	ug/L	J	1.0		SW8260B	06/08/09 12:56 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
2-Hexanone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/08/09 12:56 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Styrene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Toluene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09060101-011
Client Sample ID: Trip Blank

Report Date: 06/24/09
Collection Date: 06/01/09 14:20
Date Received: 06/05/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	06/08/09 12:56 / abb
Surr: 1,2-Dichloroethane-d4	92.0	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: Dibromofluoromethane	80.0	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: p-Bromofluorobenzene	103	%REC		70-130		SW8260B	06/08/09 12:56 / abb
Surr: Toluene-d8	100	%REC		70-130		SW8260B	06/08/09 12:56 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

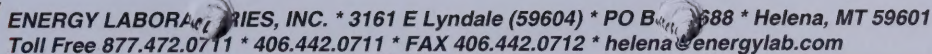
Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: COND_090608A		
Sample ID: CCV2_090608A		Continuing Calibration Verification Standard							06/08/09 13:37	
Conductivity		714	umhos/cm	1.0	99	90	110			
Method: A2510 B								Batch: 090608A-COND-PROBE-W		
Sample ID: LCS1_090608A		Laboratory Control Sample							Run: COND_090608A 06/08/09 13:07	
Conductivity		1410	umhos/cm	1.0	100	90	110			
Sample ID: H09060101-004ADUP		Sample Duplicate							Run: COND_090608A 06/08/09 13:49	
Conductivity		3930	umhos/cm	1.0				1.4	10	
Method: A4500-H B								Analytical Run: PH_090605B		
Sample ID: CCV1_090605A		Continuing Calibration Verification Standard							06/05/09 16:50	
pH		10.1	s.u.	0.10	101	99	101			
Method: A4500-H B								Batch: 090605A-PH-W		
Sample ID: LCS1_090605A		Laboratory Control Sample							Run: PH_090605B 06/05/09 16:32	
pH		7.04	s.u.	0.10	101	99	101			
Sample ID: H09060101-007ADUP		Sample Duplicate							Run: PH_090605B 06/05/09 16:44	
pH		7.33	s.u.	0.10				0	2	
Method: E200.7								Batch: B_39394		
Sample ID: MB-39394		4	Method Blank				Run: SUB-B130938		06/10/09 20:05	
Barium		ND	mg/L	0.002						
Iron		ND	mg/L	0.009						
Vanadium		ND	mg/L	0.02						
Zinc		ND	mg/L	0.004						
Sample ID: LCS5-39394		4	Laboratory Control Sample				Run: SUB-B130938		06/10/09 20:09	
Barium		0.5100	mg/L	0.10	102	85	115			
Iron		2.601	mg/L	0.030	104	85	115			
Vanadium		0.4984	mg/L	0.10	100	85	115			
Zinc		0.5220	mg/L	0.010	104	85	115			
Sample ID: B09060873-023AMS5		4	Sample Matrix Spike				Run: SUB-B130938		06/10/09 20:33	
Barium		0.5100	mg/L	0.10	99	70	130			
Iron		18.06	mg/L	0.030		70	130			A
Vanadium		0.4841	mg/L	0.10	97	70	130			
Zinc		0.6430	mg/L	0.010	102	70	130			
Sample ID: B09060873-023AMSD		4	Sample Matrix Spike Duplicate				Run: SUB-B130938		06/10/09 20:37	
Barium		0.4967	mg/L	0.10	96	70	130	2.6	20	
Iron		18.16	mg/L	0.030		70	130	0.6	20	A
Vanadium		0.4757	mg/L	0.10	95	70	130	1.8	20	
Zinc		0.6340	mg/L	0.010	100	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



Work Order: H09060101

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7		Analytical Run: SUB-B130974								
Sample ID: ICV		9 Continuing Calibration Verification Standard								06/11/09 09:24
Antimony		2.44	mg/L	0.037	98	95	105			
Barium		2.56	mg/L	0.10	103	95	105			
Beryllium		1.28	mg/L	0.010	102	95	105			
Chromium		2.52	mg/L	0.050	101	95	105			
Cobalt		2.44	mg/L	0.020	97	95	105			
Copper		2.52	mg/L	0.010	101	95	105			
Iron		2.54	mg/L	0.030	102	95	105			
Vanadium		2.49	mg/L	0.10	100	95	105			
Zinc		2.48	mg/L	0.010	99	95	105			
Method: E200.7		Batch: B_R130974								
Sample ID: MB-TJADIS090611A		9 Method Blank								06/11/09 09:50
		Run: SUB-B130974								
Antimony		ND	mg/L	0.04						
Barium		ND	mg/L	0.0006						
Beryllium		0.0003	mg/L	0.0001						
Chromium		ND	mg/L	0.005						
Cobalt		ND	mg/L	0.005						
Copper		ND	mg/L	0.005						
Iron		ND	mg/L	0.003						
Vanadium		0.008	mg/L	0.005						
Zinc		0.003	mg/L	0.002						
Sample ID: LFB-TJADIS090611A		9 Laboratory Fortified Blank								06/11/09 09:54
		Run: SUB-B130974								
Antimony		0.946	mg/L	0.038	95	85	115			
Barium		1.07	mg/L	0.10	107	85	115			
Beryllium		0.522	mg/L	0.010	104	85	115			
Chromium		1.00	mg/L	0.050	100	85	115			
Cobalt		0.982	mg/L	0.020	98	85	115			
Copper		1.02	mg/L	0.010	102	85	115			
Iron		5.01	mg/L	0.030	100	85	115			
Vanadium		0.998	mg/L	0.10	99	85	115			
Zinc		1.01	mg/L	0.010	100	85	115			
Sample ID: B09060873-048AMS2		9 Sample Matrix Spike								06/11/09 18:14
		Run: SUB-B130974								
Antimony		0.975	mg/L	0.038	98	70	130			
Barium		1.08	mg/L	0.10	107	70	130			
Beryllium		0.510	mg/L	0.0010	102	70	130			
Chromium		1.00	mg/L	0.010	100	70	130			
Cobalt		0.991	mg/L	0.010	99	70	130			
Copper		1.01	mg/L	0.010	101	70	130			
Iron		5.09	mg/L	0.030	99	70	130			
Vanadium		0.999	mg/L	0.10	100	70	130			
Zinc		1.01	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: B_R130974
Sample ID: B09060873-048AMSD 9 Sample Matrix Spike Duplicate										Run: SUB-B130974 06/11/09 18:18
Antimony		1.04	mg/L	0.038	104	70	130	6		20
Barium		1.08	mg/L	0.10	108	70	130	0.4		20
Beryllium		0.512	mg/L	0.0010	102	70	130	0.3		20
Chromium		1.03	mg/L	0.010	103	70	130	2.9		20
Cobalt		1.02	mg/L	0.010	102	70	130	2.9		20
Copper		1.01	mg/L	0.010	101	70	130	0.5		20
Iron		5.24	mg/L	0.030	102	70	130	3		20
Vanadium		1.00	mg/L	0.10	100	70	130	0.3		20
Zinc		1.04	mg/L	0.010	104	70	130	2.9		20
Sample ID: H09060103-004B 9 Sample Matrix Spike										Run: SUB-B130974 06/11/09 19:11
Antimony		4.99	mg/L	0.19	100	70	130			
Barium		5.65	mg/L	0.10	108	70	130			
Beryllium		2.58	mg/L	0.0010	103	70	130			
Chromium		4.99	mg/L	0.027	100	70	130			
Cobalt		4.90	mg/L	0.025	98	70	130			
Copper		5.03	mg/L	0.023	101	70	130			
Iron		25.7	mg/L	0.030	98	70	130			
Vanadium		4.98	mg/L	0.10	99	70	130			
Zinc		5.16	mg/L	0.010	101	70	130			
Sample ID: H09060103-004B 9 Sample Matrix Spike Duplicate										Run: SUB-B130974 06/11/09 19:15
Antimony		4.98	mg/L	0.19	100	70	130	0.1		20
Barium		5.60	mg/L	0.10	107	70	130	0.9		20
Beryllium		2.56	mg/L	0.0010	102	70	130	1.1		20
Chromium		4.93	mg/L	0.027	99	70	130	1.2		20
Cobalt		4.90	mg/L	0.025	98	70	130	0		20
Copper		5.00	mg/L	0.023	100	70	130	0.6		20
Iron		25.8	mg/L	0.030	99	70	130	0.3		20
Vanadium		4.97	mg/L	0.10	99	70	130	0.2		20
Zinc		5.13	mg/L	0.010	100	70	130	0.6		20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_39394
Sample ID: MB-39394	13	Method Blank			Run: SUB-B130996				06/11/09 16:54	
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0004						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.001	mg/L	0.0009						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		5E-05	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	0.0001						
Thallium		ND	mg/L	2E-05						
Zinc		ND	mg/L	0.004						
Sample ID: LCS5-39394	13	Laboratory Control Sample			Run: SUB-B130996				06/11/09 16:58	
Antimony		0.535	mg/L	0.0050	107	85	115			
Arsenic		0.524	mg/L	0.0050	105	85	115			
Beryllium		0.261	mg/L	0.0010	104	85	115			
Cadmium		0.257	mg/L	0.0010	103	85	115			
Chromium		0.486	mg/L	0.010	97	85	115			
Cobalt		0.480	mg/L	0.010	96	85	115			
Copper		0.483	mg/L	0.010	97	85	115			
Lead		0.505	mg/L	0.010	101	85	115			
Nickel		0.493	mg/L	0.010	99	85	115			
Selenium		0.515	mg/L	0.0050	103	85	115			
Silver		0.0518	mg/L	0.0050	104	85	115			
Thallium		0.506	mg/L	0.0050	101	85	115			
Zinc		0.516	mg/L	0.010	103	85	115			
Sample ID: MB-39394	13	Method Blank			Run: SUB-B131155				06/15/09 19:18	
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.0006	mg/L	0.0002						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		0.0001	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	9E-05						
Thallium		ND	mg/L	1E-05						
Zinc		0.001	mg/L	0.0006						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_39394
Sample ID: LCS5-39394	13	Laboratory Control Sample				Run: SUB-B131155			06/15/09 19:22	
Antimony		0.5206	mg/L	0.0050	104	85	115			
Arsenic		0.5231	mg/L	0.0050	105	85	115			
Beryllium		0.2607	mg/L	0.0010	104	85	115			
Cadmium		0.2649	mg/L	0.0010	106	85	115			
Chromium		0.4935	mg/L	0.010	99	85	115			
Cobalt		0.4897	mg/L	0.010	98	85	115			
Copper		0.4763	mg/L	0.010	95	85	115			
Lead		0.5004	mg/L	0.010	100	85	115			
Nickel		0.4872	mg/L	0.010	97	85	115			
Selenium		0.5260	mg/L	0.0050	105	85	115			
Silver		0.05129	mg/L	0.0050	103	85	115			
Thallium		0.5108	mg/L	0.0050	102	85	115			
Zinc		0.5171	mg/L	0.010	103	85	115			
Sample ID: B09060873-023AMS5	13	Sample Matrix Spike				Run: SUB-B131155			06/15/09 20:47	
Antimony		0.5090	mg/L	0.0050	102	70	130			
Arsenic		0.5322	mg/L	0.0050	102	70	130			
Beryllium		0.2234	mg/L	0.0010	89	70	130			
Cadmium		0.2458	mg/L	0.0010	98	70	130			
Chromium		0.4818	mg/L	0.010	96	70	130			
Cobalt		9.046	mg/L	0.010		70	130			A
Copper		8.148	mg/L	0.010		70	130			A
Lead		0.4974	mg/L	0.010	99	70	130			
Nickel		1.091	mg/L	0.010	89	70	130			
Selenium		0.5048	mg/L	0.0050	101	70	130			
Silver		0.04898	mg/L	0.0050	97	70	130			
Thallium		0.5062	mg/L	0.0050	101	70	130			
Zinc		0.6308	mg/L	0.010	98	70	130			
Sample ID: B09060873-023AMSD	13	Sample Matrix Spike Duplicate				Run: SUB-B131155			06/15/09 20:51	
Antimony		0.5270	mg/L	0.0050	105	70	130	3.5	20	
Arsenic		0.5440	mg/L	0.0050	104	70	130	2.2	20	
Beryllium		0.2304	mg/L	0.0010	92	70	130	3.1	20	
Cadmium		0.2542	mg/L	0.0010	102	70	130	3.4	20	
Chromium		0.4888	mg/L	0.010	97	70	130	1.4	20	
Cobalt		9.336	mg/L	0.010		70	130	3.2	20	A
Copper		8.352	mg/L	0.010		70	130	2.5	20	A
Lead		0.5034	mg/L	0.010	101	70	130	1.2	20	
Nickel		1.127	mg/L	0.010	96	70	130	3.2	20	
Selenium		0.5180	mg/L	0.0050	103	70	130	2.6	20	
Silver		0.05086	mg/L	0.0050	101	70	130	3.8	20	
Thallium		0.5136	mg/L	0.0050	103	70	130	1.5	20	
Zinc		0.6452	mg/L	0.010	101	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_39394
Sample ID: MB-39394	13	Method Blank			Run: SUB-B131236				06/16/09 18:59	
Antimony		ND	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	2E-05						
Chromium		0.001	mg/L	0.0002						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	7E-05						
Nickel		0.0001	mg/L	4E-05						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	9E-05						
Thallium		ND	mg/L	1E-05						
Zinc		0.0009	mg/L	0.0006						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-B130996		
Sample ID: QCS - 090602A,09040		8	Initial Calibration Verification Standard					06/11/09 10:01		
Arsenic		0.050	mg/L	0.0050	100	90	110			
Cadmium		0.025	mg/L	0.0010	99	90	110			
Lead		0.049	mg/L	0.010	97	90	110			
Mercury		0.0019	mg/L	0.0010	96	90	110			
Nickel		0.049	mg/L	0.010	98	90	110			
Selenium		0.049	mg/L	0.0050	99	90	110			
Silver		0.026	mg/L	0.0050	102	90	110			
Thallium		0.050	mg/L	0.10	99	90	110			
Method: E200.8								Batch: B_R130996		
Sample ID: LRB		8	Method Blank		Run: SUB-B130996			06/11/09 10:32		
Arsenic		ND	mg/L	3E-05						
Cadmium		ND	mg/L	8E-05						
Lead		2E-05	mg/L	8E-06						
Mercury		1E-05	mg/L	8E-06						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	0.0002						
Silver		0.0002	mg/L	2E-05						
Thallium		1E-05	mg/L	8E-06						
Sample ID: LFB		8	Laboratory Fortified Blank		Run: SUB-B130996			06/11/09 10:40		
Arsenic		0.051	mg/L	0.0050	103	85	115			
Cadmium		0.051	mg/L	0.0010	101	85	115			
Lead		0.051	mg/L	0.010	101	85	115			
Mercury		0.0010	mg/L	0.0010	100	85	115			
Nickel		0.051	mg/L	0.010	102	85	115			
Selenium		0.051	mg/L	0.0050	102	85	115			
Silver		0.020	mg/L	0.0050	97	85	115			
Thallium		0.051	mg/L	0.10	101	85	115			
Sample ID: B09060907-009BMS		8	Sample Matrix Spike		Run: SUB-B130996			06/11/09 19:29		
Arsenic		3.76	mg/L	0.0050		70	130			A
Cadmium		0.260	mg/L	0.0010	103	70	130			
Lead		0.255	mg/L	0.010	102	70	130			
Mercury		0.00510	mg/L	0.0010	101	70	130			
Nickel		0.240	mg/L	0.010	95	70	130			
Selenium		0.300	mg/L	0.0050	99	70	130			
Silver		0.0856	mg/L	0.0050	84	70	130			
Thallium		0.255	mg/L	0.0050	102	70	130			
Sample ID: B09060907-009BMSD		8	Sample Matrix Spike Duplicate		Run: SUB-B130996			06/11/09 19:33		
Arsenic		3.77	mg/L	0.0050		70	130	0.1	20	A
Cadmium		0.259	mg/L	0.0010	103	70	130	0.1	20	
Lead		0.255	mg/L	0.010	102	70	130	0.1	20	
Mercury		0.00531	mg/L	0.0010	105	70	130	4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Batch: B_R130996								
Sample ID: B09060907-009BMSD		8	Sample Matrix Spike Duplicate			Run: SUB-B130996			06/11/09 19:33	
Nickel		0.242	mg/L	0.010	95	70	130	0.7	20	
Selenium		0.295	mg/L	0.0050	97	70	130	1.7	20	
Silver		0.0804	mg/L	0.0050	79	70	130	6.3	20	
Thallium		0.255	mg/L	0.0050	102	70	130	0	20	

Method: E200.8		Analytical Run: SUB-B131155								
Sample ID: QCS - 090602A,09040		13	Initial Calibration Verification Standard			06/15/09 21:27				
Antimony		0.049	mg/L	0.050	98	90	110			
Arsenic		0.051	mg/L	0.0050	102	90	110			
Beryllium		0.025	mg/L	0.0010	99	90	110			
Cadmium		0.025	mg/L	0.0010	100	90	110			
Chromium		0.049	mg/L	0.010	99	90	110			
Cobalt		0.049	mg/L	0.010	99	90	110			
Copper		0.049	mg/L	0.010	99	90	110			
Lead		0.050	mg/L	0.010	99	90	110			
Nickel		0.050	mg/L	0.010	99	90	110			
Selenium		0.052	mg/L	0.0050	104	90	110			
Silver		0.026	mg/L	0.0050	103	90	110			
Thallium		0.051	mg/L	0.10	102	90	110			
Zinc		0.052	mg/L	0.010	104	90	110			

Sample ID: QCS - 090602A,09040		13	Initial Calibration Verification Standard			06/15/09 10:41				
Antimony		0.049	mg/L	0.050	98	90	110			
Arsenic		0.051	mg/L	0.0050	101	90	110			
Beryllium		0.025	mg/L	0.0010	98	90	110			
Cadmium		0.025	mg/L	0.0010	99	90	110			
Chromium		0.049	mg/L	0.010	99	90	110			
Cobalt		0.049	mg/L	0.010	99	90	110			
Copper		0.049	mg/L	0.010	98	90	110			
Lead		0.050	mg/L	0.010	99	90	110			
Nickel		0.049	mg/L	0.010	99	90	110			
Selenium		0.052	mg/L	0.0050	103	90	110			
Silver		0.025	mg/L	0.0050	101	90	110			
Thallium		0.050	mg/L	0.10	100	90	110			
Zinc		0.051	mg/L	0.010	103	90	110			

Method: E200.8		Analytical Run: SUB-B131236								
Sample ID: QCS - 090602A,09040		Initial Calibration Verification Standard			06/16/09 11:02					
Arsenic		0.051	mg/L	0.0050	102	90	110			
Sample ID: QCS - 090602A,09040		Initial Calibration Verification Standard			06/16/09 16:32					
Arsenic		0.050	mg/L	0.0050	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										Batch: B_39438
Sample ID: MB-39438		Method Blank					Run: SUB-B130995			06/11/09 12:47
Mercury		ND	mg/L	5E-05						
Sample ID: LFB-39438		Laboratory Fortified Blank					Run: SUB-B130995			06/11/09 12:49
Mercury		0.0019	mg/L	0.0010	94	85	115			
Sample ID: B09060911-001BMS		Sample Matrix Spike					Run: SUB-B130995			06/11/09 13:17
Mercury		0.0018	mg/L	0.0010	90	70	130			
Sample ID: B09060911-001BMSD		Sample Matrix Spike Duplicate					Run: SUB-B130995			06/11/09 13:20
Mercury		0.0019	mg/L	0.0010	93	70	130	3.3	30	
Sample ID: B09060766-021BMS		Sample Matrix Spike					Run: SUB-B130995			06/11/09 12:56
Mercury		0.0019	mg/L	0.0010	93	70	130			
Sample ID: B09060766-021BMSD		Sample Matrix Spike Duplicate					Run: SUB-B130995			06/11/09 12:59
Mercury		0.0019	mg/L	0.0010	94	70	130	1.6	30	
Method: E245.1										Analytical Run: SUB-B130995
Sample ID: QCS		Initial Calibration Verification Standard								06/11/09 12:39
Mercury		0.0021	mg/L	0.0010	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC101-H_090616A		
Sample ID: ICV	2	Initial Calibration Verification Standard								06/16/09 15:40
Chloride		2.5	mg/L	1.0	100	90	110			
Sulfate		9.7	mg/L	1.0	97	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								06/17/09 01:14
Chloride		26	mg/L	1.0	103	90	110			
Sulfate		51	mg/L	1.0	102	90	110			
Sample ID: CCV	2	Continuing Calibration Verification Standard								06/17/09 05:04
Chloride		26	mg/L	1.0	102	90	110			
Sulfate		51	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R54350		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC101-H_090616A			06/16/09 15:56	
Chloride		92	mg/L	1.0	106	90	110			
Sulfate		27	mg/L	1.0	95	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC101-H_090616A			06/16/09 16:12	
Chloride		5.2	mg/L	1.0	103	90	110			
Sulfate		9.7	mg/L	1.0	93	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC101-H_090616A			06/16/09 16:29	
Chloride		ND	mg/L	0.05						
Sulfate		0.5	mg/L	0.1						
Sample ID: H09060101-001A MS	2	Sample Matrix Spike				Run: IC101-H_090616A			06/17/09 02:36	
Chloride		37	mg/L	1.0	109	90	110			
Sulfate		92	mg/L	1.0	110	90	110			
Sample ID: H09060101-001A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_090616A			06/17/09 02:53	
Chloride		37	mg/L	1.0	109	90	110	0.2	20	
Sulfate		91	mg/L	1.0	109	90	110	0.2	20	
Sample ID: H09060103-003A MS	2	Sample Matrix Spike				Run: IC101-H_090616A			06/17/09 06:26	
Chloride		100	mg/L	1.0	109	90	110			
Sulfate		61	mg/L	1.0	105	90	110			
Sample ID: H09060103-003A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_090616A			06/17/09 06:43	
Chloride		100	mg/L	1.0	108	90	110	0.1	20	
Sulfate		61	mg/L	1.0	105	90	110	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E353.2							Analytical Run: NUTRIENTS_090609C				
Sample ID: ICV-1	Initial Calibration Verification Standard										06/09/09 16:30
Nitrogen, Nitrate+Nitrite as N		1.050	mg/L	0.050	105	90	110				
Sample ID: CCV-4							Continuing Calibration Verification Standard				06/09/09 16:36
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110				
Sample ID: CCV-21							Continuing Calibration Verification Standard				06/09/09 17:10
Nitrogen, Nitrate+Nitrite as N		0.5200	mg/L	0.050	104	90	110				
Method: E353.2							Batch: A2009-06-09_5_NO3_02				
Sample ID: LCS-2	Laboratory Control Sample										06/09/09 16:32
Nitrogen, Nitrate+Nitrite as N		16.10	mg/L	0.095	106	90	110				
Sample ID: LFB-3							Laboratory Fortified Blank				06/09/09 16:34
Nitrogen, Nitrate+Nitrite as N		0.5400	mg/L	0.050	108	90	110				
Sample ID: MBLK-7							Method Blank				06/09/09 16:42
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010							
Sample ID: H09060094-002AMS							Sample Matrix Spike				06/09/09 16:54
Nitrogen, Nitrate+Nitrite as N		1.54	mg/L	0.050	101	90	110				
Sample ID: H09060094-002AMSD							Sample Matrix Spike Duplicate				06/09/09 16:56
Nitrogen, Nitrate+Nitrite as N		1.52	mg/L	0.050	99	90	110	1.3	20		
Sample ID: H09060107-001DMS							Sample Matrix Spike				06/09/09 17:24
Nitrogen, Nitrate+Nitrite as N		1.400	mg/L	0.050	103	90	110				
Sample ID: H09060107-001DMSD							Sample Matrix Spike Duplicate				06/09/09 17:26
Nitrogen, Nitrate+Nitrite as N		1.410	mg/L	0.050	104	90	110	0.7	20		
Method: E410.4							Analytical Run: SPECTRO_090612A				
Sample ID: CCV	Continuing Calibration Verification Standard										06/12/09 15:00
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	101	90	110				
Method: E410.4							Batch: R54236				
Sample ID: LCS	Laboratory Control Sample										06/12/09 15:00
Oxygen Demand, Chemical (COD)		310	mg/L	4.7	105	90	110				
Sample ID: MBLK							Method Blank				06/12/09 15:00
Oxygen Demand, Chemical (COD)		ND	mg/L	0.9							
Sample ID: H09060101-005BMS							Sample Matrix Spike				06/12/09 15:00
Oxygen Demand, Chemical (COD)		52	mg/L	1.0	99	90	110				
Sample ID: H09060101-005BMSD							Sample Matrix Spike Duplicate				06/12/09 15:00
Oxygen Demand, Chemical (COD)		53	mg/L	1.0	99	90	110	0.6	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod		Analytical Run: SUB-B131074								
Sample ID: ICV-1		Initial Calibration Verification Standard								06/12/09 10:49
Cyanide, Total		0.149	mg/L	0.0050	100	90	110			
Method: Kelada mod		Batch: B_R131074								
Sample ID: LFB-2		Laboratory Fortified Blank								06/12/09 10:51
Cyanide, Total		0.109	mg/L	0.0050	109	90	110			
Sample ID: MBLK-3		Method Blank								06/12/09 10:53
Cyanide, Total		ND	mg/L	0.003						
Sample ID: B09060914-001EMS		Sample Matrix Spike								06/12/09 12:01
Cyanide, Total		0.0968	mg/L	0.0050	87	90	110			S
Sample ID: B09060914-001EMSD		Sample Matrix Spike Duplicate								06/12/09 12:03
Cyanide, Total		0.104	mg/L	0.0050	94	90	110	7.2	10	
Sample ID: B09061050-001DMS		Sample Matrix Spike								06/12/09 12:34
Cyanide, Total		0.0980	mg/L	0.0050	98	90	110			
Sample ID: B09061050-001DMSD		Sample Matrix Spike Duplicate								06/12/09 12:36
Cyanide, Total		0.0974	mg/L	0.0050	97	90	110	0.6	10	
Sample ID: B09060896-003DMS		Sample Matrix Spike								06/12/09 11:31
Cyanide, Total		0.0877	mg/L	0.0050	88	90	110			S
Sample ID: B09060896-003DMSD		Sample Matrix Spike Duplicate								06/12/09 11:33
Cyanide, Total		0.0877	mg/L	0.0050	88	90	110	0	10	S
Sample ID: B09061159-003EMS		Sample Matrix Spike								06/12/09 13:01
Cyanide, Total		0.0623	mg/L	0.0050	62	90	110			S
Sample ID: B09061159-003EMSD		Sample Matrix Spike Duplicate								06/12/09 13:03
Cyanide, Total		0.0603	mg/L	0.0050	60	90	110	3.2	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090608B								
Sample ID: CCV060809A		54 Continuing Calibration Verification Standard								06/08/09 09:22
Acetone		44.8	ug/L	20	90	70	130			
Acrylonitrile		50.0	ug/L	20	100	70	130			
Benzene		4.52	ug/L	1.0	90	70	130			
Bromochloromethane		4.92	ug/L	1.0	98	70	130			
Bromodichloromethane		4.52	ug/L	1.0	90	70	130			
Bromoform		4.44	ug/L	1.0	89	70	130			
Bromomethane		4.24	ug/L	1.0	85	70	130			
Carbon disulfide		4.76	ug/L	1.0	95	70	130			
Carbon tetrachloride		4.68	ug/L	1.0	94	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		4.68	ug/L	1.0	94	70	130			
Chloroethane		4.52	ug/L	1.0	90	70	130			
Chloroform		4.76	ug/L	1.0	95	80	120			
Chloromethane		4.56	ug/L	1.0	91	70	130			
1,2-Dibromo-3-chloropropane		4.28	ug/L	1.0	86	70	130			
1,2-Dibromoethane		4.40	ug/L	1.0	88	70	130			
Dibromomethane		4.72	ug/L	1.0	94	70	130			
1,2-Dichlorobenzene		4.68	ug/L	1.0	94	70	130			
1,4-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
trans-1,4-Dichloro-2-butene		4.96	ug/L	1.0	99	70	130			
Dichlorodifluoromethane		5.20	ug/L	1.0	104	70	130			
1,1-Dichloroethane		4.64	ug/L	1.0	93	70	130			
1,2-Dichloroethane		4.40	ug/L	1.0	88	70	130			
1,1-Dichloroethene		4.52	ug/L	1.0	90	80	120			
cis-1,2-Dichloroethene		4.80	ug/L	1.0	96	70	130			
trans-1,2-Dichloroethene		4.88	ug/L	1.0	98	70	130			
1,2-Dichloropropane		4.72	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		4.76	ug/L	1.0	95	70	130			
trans-1,3-Dichloropropene		4.68	ug/L	1.0	94	70	130			
Ethylbenzene		4.96	ug/L	1.0	99	80	120			
2-Hexanone		44.4	ug/L	20	89	70	130			
Iodomethane		4.68	ug/L	1.0	94	70	130			
Methyl ethyl ketone		44.0	ug/L	20	88	70	130			
Methyl isobutyl ketone		44.8	ug/L	20	90	70	130			
Methylene chloride		4.76	ug/L	1.0	95	70	130			
Styrene		5.12	ug/L	1.0	102	70	130			
1,1,1,2-Tetrachloroethane		4.92	ug/L	1.0	98	70	130			
1,1,2,2-Tetrachloroethane		4.68	ug/L	1.0	94	70	130			
Tetrachloroethene		4.84	ug/L	1.0	97	70	130			
Toluene		4.72	ug/L	1.0	94	80	120			
1,1,1-Trichloroethane		4.96	ug/L	1.0	99	70	130			
1,1,2-Trichloroethane		4.84	ug/L	1.0	97	70	130			
Trichloroethene		4.68	ug/L	1.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_090608B		
Sample ID: CCV060809A	54	Continuing Calibration Verification Standard							06/08/09 09:22	
Trichlorofluoromethane		5.16	ug/L	1.0	103	70	130			
1,2,3-Trichloropropane		4.12	ug/L	1.0	82	70	130			
Vinyl acetate		4.12	ug/L	1.0	82	70	130			
Vinyl chloride		4.92	ug/L	1.0	98	80	120			
m+p-Xylenes		10.3	ug/L	1.0	103	70	130			
o-Xylene		5.32	ug/L	1.0	106	70	130			
Xylenes, Total		15.6	ug/L	1.0	104	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	96	70	130			
Surr: Dibromofluoromethane				1.0	85	70	130			
Surr: p-Bromofluorobenzene				1.0	97	70	130			
Surr: Toluene-d8				1.0	103	70	130			
Method: SW8260B								Batch: R54232		
Sample ID: LCS060809A	54	Laboratory Control Sample							Run: 1SATURN_090608B	
Acetone		47.2	ug/L	20	94	70	130			06/08/09 10:07
Acrylonitrile		50.8	ug/L	20	102	70	130			
Benzene		4.40	ug/L	1.0	88	70	130			
Bromochloromethane		4.80	ug/L	1.0	96	70	130			
Bromodichloromethane		4.72	ug/L	1.0	94	70	130			
Bromoform		4.24	ug/L	1.0	85	70	130			
Bromomethane		4.20	ug/L	1.0	84	70	130			
Carbon disulfide		4.88	ug/L	1.0	98	70	130			
Carbon tetrachloride		4.68	ug/L	1.0	94	70	130			
Chlorobenzene		5.00	ug/L	1.0	100	70	130			
Chlorodibromomethane		4.68	ug/L	1.0	94	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		4.64	ug/L	1.0	93	70	130			
Chloromethane		4.24	ug/L	1.0	85	70	130			
1,2-Dibromo-3-chloropropane		4.76	ug/L	1.0	95	70	130			
1,2-Dibromoethane		4.40	ug/L	1.0	88	70	130			
Dibromomethane		4.76	ug/L	1.0	95	70	130			
1,2-Dichlorobenzene		5.08	ug/L	1.0	102	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
trans-1,4-Dichloro-2-butene		4.48	ug/L	1.0	90	70	130			
Dichlorodifluoromethane		3.75	ug/L	1.0	75	70	130			
1,1-Dichloroethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichloroethane		4.16	ug/L	1.0	83	70	130			
1,1-Dichloroethene		5.08	ug/L	1.0	102	70	130			
cis-1,2-Dichloroethene		4.56	ug/L	1.0	91	70	130			
trans-1,2-Dichloroethene		5.08	ug/L	1.0	102	70	130			
1,2-Dichloropropane		4.56	ug/L	1.0	91	70	130			
cis-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		4.64	ug/L	1.0	93	70	130			
Ethylbenzene		5.04	ug/L	1.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54232
Sample ID: LCS060809A	54	Laboratory Control Sample				Run: 1SATURN_090608B				06/08/09 10:07
2-Hexanone		46.0	ug/L	20	92	70	130			
Iodomethane		4.80	ug/L	1.0	96	70	130			
Methyl ethyl ketone		46.8	ug/L	20	94	70	130			
Methyl isobutyl ketone		48.4	ug/L	20	97	70	130			
Methylene chloride		4.84	ug/L	1.0	97	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		4.96	ug/L	1.0	99	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		4.68	ug/L	1.0	94	70	130			
1,1,2-Trichloroethane		4.68	ug/L	1.0	94	70	130			
Trichloroethene		4.80	ug/L	1.0	96	70	130			
Trichlorofluoromethane		4.68	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.96	ug/L	1.0	99	70	130			
Vinyl acetate		4.24	ug/L	1.0	85	70	130			
Vinyl chloride		4.40	ug/L	1.0	88	70	130			
m+p-Xylenes		10.0	ug/L	1.0	100	70	130			
o-Xylene		4.88	ug/L	1.0	98	70	130			
Xylenes, Total		14.9	ug/L	1.0	99	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Dibromofluoromethane				1.0	82	70	130			
Surr: p-Bromofluorobenzene				1.0	95	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: MB060809A	54	Method Blank				Run: 1SATURN_090608B				06/08/09 12:21
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54232
Sample ID: MB060809A	54	Method Blank								Run: 1SATURN_090608B 06/08/09 12:21
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090612A								
Sample ID: CCV061209A	54	Continuing Calibration Verification Standard								06/12/09 09:56
Acetone		48.4	ug/L	20	97	70	130			
Acrylonitrile		52.8	ug/L	20	106	70	130			
Benzene		4.12	ug/L	1.0	82	70	130			
Bromochloromethane		4.96	ug/L	1.0	99	70	130			
Bromodichloromethane		4.88	ug/L	1.0	98	70	130			
Bromoform		4.68	ug/L	1.0	94	70	130			
Bromomethane		5.04	ug/L	1.0	101	70	130			
Carbon disulfide		4.60	ug/L	1.0	92	70	130			
Carbon tetrachloride		4.16	ug/L	1.0	83	70	130			
Chlorobenzene		4.92	ug/L	1.0	98	70	130			
Chlorodibromomethane		5.36	ug/L	1.0	107	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
Chloroform		4.48	ug/L	1.0	90	80	120			
Chloromethane		5.28	ug/L	1.0	106	70	130			
1,2-Dibromo-3-chloropropane		4.96	ug/L	1.0	99	70	130			
1,2-Dibromoethane		4.60	ug/L	1.0	92	70	130			
Dibromomethane		5.12	ug/L	1.0	102	70	130			
1,2-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		5.04	ug/L	1.0	101	70	130			
trans-1,4-Dichloro-2-butene		4.68	ug/L	1.0	94	70	130			
Dichlorodifluoromethane		5.16	ug/L	1.0	103	70	130			
1,1-Dichloroethane		4.20	ug/L	1.0	84	70	130			
1,2-Dichloroethane		4.44	ug/L	1.0	89	70	130			
1,1-Dichloroethene		4.16	ug/L	1.0	83	80	120			
cis-1,2-Dichloroethene		4.40	ug/L	1.0	88	70	130			
trans-1,2-Dichloroethene		4.08	ug/L	1.0	82	70	130			
1,2-Dichloropropane		4.68	ug/L	1.0	94	80	120			
cis-1,3-Dichloropropene		5.08	ug/L	1.0	102	70	130			
trans-1,3-Dichloropropene		5.64	ug/L	1.0	113	70	130			
Ethylbenzene		5.16	ug/L	1.0	103	80	120			
2-Hexanone		46.8	ug/L	20	94	70	130			
Iodomethane		4.96	ug/L	1.0	99	70	130			
Methyl ethyl ketone		47.2	ug/L	20	94	70	130			
Methyl isobutyl ketone		44.4	ug/L	20	89	70	130			
Methylene chloride		4.20	ug/L	1.0	84	70	130			
Styrene		4.76	ug/L	1.0	95	70	130			
1,1,1,2-Tetrachloroethane		5.28	ug/L	1.0	106	70	130			
1,1,2,2-Tetrachloroethane		4.92	ug/L	1.0	98	70	130			
Tetrachloroethene		5.44	ug/L	1.0	109	70	130			
Toluene		4.96	ug/L	1.0	99	80	120			
1,1,1-Trichloroethane		4.44	ug/L	1.0	89	70	130			
1,1,2-Trichloroethane		5.52	ug/L	1.0	110	70	130			
Trichloroethene		4.44	ug/L	1.0	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QCQC Summary Report

Report Date: 10/24/2017
 Week Order: H0000101

Client: HT CEO
 Project: Home to Home

Location	Open	Good	Not	AT	Open Location	High/Low	ATD	High/Low	Open
Location 1	100	100	100	100	100	100	100	100	100
Location 2	100	100	100	100	100	100	100	100	100
Location 3	100	100	100	100	100	100	100	100	100
Location 4	100	100	100	100	100	100	100	100	100
Location 5	100	100	100	100	100	100	100	100	100
Location 6	100	100	100	100	100	100	100	100	100
Location 7	100	100	100	100	100	100	100	100	100
Location 8	100	100	100	100	100	100	100	100	100
Location 9	100	100	100	100	100	100	100	100	100
Location 10	100	100	100	100	100	100	100	100	100
Location 11	100	100	100	100	100	100	100	100	100
Location 12	100	100	100	100	100	100	100	100	100
Location 13	100	100	100	100	100	100	100	100	100
Location 14	100	100	100	100	100	100	100	100	100
Location 15	100	100	100	100	100	100	100	100	100
Location 16	100	100	100	100	100	100	100	100	100
Location 17	100	100	100	100	100	100	100	100	100
Location 18	100	100	100	100	100	100	100	100	100
Location 19	100	100	100	100	100	100	100	100	100
Location 20	100	100	100	100	100	100	100	100	100
Location 21	100	100	100	100	100	100	100	100	100
Location 22	100	100	100	100	100	100	100	100	100
Location 23	100	100	100	100	100	100	100	100	100
Location 24	100	100	100	100	100	100	100	100	100
Location 25	100	100	100	100	100	100	100	100	100
Location 26	100	100	100	100	100	100	100	100	100
Location 27	100	100	100	100	100	100	100	100	100
Location 28	100	100	100	100	100	100	100	100	100
Location 29	100	100	100	100	100	100	100	100	100
Location 30	100	100	100	100	100	100	100	100	100
Location 31	100	100	100	100	100	100	100	100	100
Location 32	100	100	100	100	100	100	100	100	100
Location 33	100	100	100	100	100	100	100	100	100
Location 34	100	100	100	100	100	100	100	100	100
Location 35	100	100	100	100	100	100	100	100	100
Location 36	100	100	100	100	100	100	100	100	100
Location 37	100	100	100	100	100	100	100	100	100
Location 38	100	100	100	100	100	100	100	100	100
Location 39	100	100	100	100	100	100	100	100	100
Location 40	100	100	100	100	100	100	100	100	100
Location 41	100	100	100	100	100	100	100	100	100
Location 42	100	100	100	100	100	100	100	100	100
Location 43	100	100	100	100	100	100	100	100	100
Location 44	100	100	100	100	100	100	100	100	100
Location 45	100	100	100	100	100	100	100	100	100
Location 46	100	100	100	100	100	100	100	100	100
Location 47	100	100	100	100	100	100	100	100	100
Location 48	100	100	100	100	100	100	100	100	100
Location 49	100	100	100	100	100	100	100	100	100
Location 50	100	100	100	100	100	100	100	100	100



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B								Analytical Run: 1SATURN_090612A		
Sample ID: CCV061209A		54 Continuing Calibration Verification Standard						06/12/09 09:56		
Trichlorofluoromethane		5.60	ug/L	1.0	112	70	130			
1,2,3-Trichloropropane		4.88	ug/L	1.0	98	70	130			
Vinyl acetate		4.64	ug/L	1.0	93	70	130			
Vinyl chloride		5.04	ug/L	1.0	101	80	120			
m+p-Xylenes		9.92	ug/L	1.0	99	70	130			
o-Xylene		5.44	ug/L	1.0	109	70	130			
Xylenes, Total		15.4	ug/L	1.0	102	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	100	70	130			
Surr: Dibromofluoromethane				1.0	86	70	130			
Surr: p-Bromofluorobenzene				1.0	106	70	130			
Surr: Toluene-d8				1.0	105	70	130			
Method: SW8260B								Batch: R54234		
Sample ID: LCS061208B		54 Laboratory Control Sample				Run: 1SATURN_090612A		06/12/09 11:14		
Acetone		44.0	ug/L	20	88	70	130			
Acrylonitrile		47.2	ug/L	20	94	70	130			
Benzene		4.24	ug/L	1.0	85	70	130			
Bromochloromethane		4.44	ug/L	1.0	89	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		4.24	ug/L	1.0	85	70	130			
Bromomethane		4.08	ug/L	1.0	82	70	130			
Carbon disulfide		4.40	ug/L	1.0	88	70	130			
Carbon tetrachloride		4.24	ug/L	1.0	85	70	130			
Chlorobenzene		5.36	ug/L	1.0	107	70	130			
Chlorodibromomethane		5.24	ug/L	1.0	105	70	130			
Chloroethane		4.08	ug/L	1.0	82	70	130			
Chloroform		4.16	ug/L	1.0	83	70	130			
Chloromethane		4.52	ug/L	1.0	90	70	130			
1,2-Dibromo-3-chloropropane		4.64	ug/L	1.0	93	70	130			
1,2-Dibromoethane		4.52	ug/L	1.0	90	70	130			
Dibromomethane		4.56	ug/L	1.0	91	70	130			
1,2-Dichlorobenzene		4.64	ug/L	1.0	93	70	130			
1,4-Dichlorobenzene		4.72	ug/L	1.0	94	70	130			
trans-1,4-Dichloro-2-butene		4.72	ug/L	1.0	94	70	130			
Dichlorodifluoromethane		4.68	ug/L	1.0	94	70	130			
1,1-Dichloroethane		3.92	ug/L	1.0	78	70	130			
1,2-Dichloroethane		3.82	ug/L	1.0	76	70	130			
1,1-Dichloroethene		3.92	ug/L	1.0	78	70	130			
cis-1,2-Dichloroethene		4.04	ug/L	1.0	81	70	130			
trans-1,2-Dichloroethene		4.16	ug/L	1.0	83	70	130			
1,2-Dichloropropane		4.52	ug/L	1.0	90	70	130			
cis-1,3-Dichloropropene		4.84	ug/L	1.0	97	70	130			
trans-1,3-Dichloropropene		5.00	ug/L	1.0	100	70	130			
Ethylbenzene		5.28	ug/L	1.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: LCS061208B	54	Laboratory Control Sample				Run: 1SATURN_090612A				06/12/09 11:14
2-Hexanone		44.4	ug/L	20	89	70	130			
Iodomethane		5.00	ug/L	1.0	100	70	130			
Methyl ethyl ketone		43.6	ug/L	20	87	70	130			
Methyl isobutyl ketone		41.6	ug/L	20	83	70	130			
Methylene chloride		3.88	ug/L	1.0	78	70	130			
Styrene		4.72	ug/L	1.0	94	70	130			
1,1,1,2-Tetrachloroethane		5.20	ug/L	1.0	104	70	130			
1,1,2,2-Tetrachloroethane		4.72	ug/L	1.0	94	70	130			
Tetrachloroethene		5.16	ug/L	1.0	103	70	130			
Toluene		4.64	ug/L	1.0	93	70	130			
1,1,1-Trichloroethane		4.36	ug/L	1.0	87	70	130			
1,1,2-Trichloroethane		4.96	ug/L	1.0	99	70	130			
Trichloroethene		4.72	ug/L	1.0	94	70	130			
Trichlorofluoromethane		4.72	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.60	ug/L	1.0	92	70	130			
Vinyl acetate		4.12	ug/L	1.0	82	70	130			
Vinyl chloride		4.32	ug/L	1.0	86	70	130			
m+p-Xylenes		10.2	ug/L	1.0	102	70	130			
o-Xylene		5.36	ug/L	1.0	107	70	130			
Xylenes, Total		15.5	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: p-Bromofluorobenzene				1.0	103	70	130			
Surr: Toluene-d8				1.0	98	70	130			
Sample ID: MBLK061209A	54	Method Blank				Run: 1SATURN_090612A				06/12/09 12:57
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: MBLK061209A	54	Method Blank				Run: 1SATURN_090612A				06/12/09 12:57
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	94	70	130			
Surr: Dibromofluoromethane				1.0	86	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			
Surr: Toluene-d8				1.0	95	70	130			
Sample ID: H09060048-001EMS	54	Sample Matrix Spike				Run: 1SATURN_090612A				06/13/09 17:16
Acetone		88.0	ug/L	40	88	70	130			
Acrylonitrile		95.2	ug/L	40	95	70	130			
Benzene		8.24	ug/L	2.0	82	70	130			
Bromochloromethane		8.72	ug/L	2.0	87	70	130			
Bromodichloromethane		9.28	ug/L	2.0	93	70	130			
Bromoform		8.80	ug/L	2.0	88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

OAIC Summary Report

Client: MT DEO
Project: Major M. 10/20/10

Report Date: 06/10/10
Work Order: 10000010

Analysis	Cost	Result	Notes	EL - Agreed Location - High/Low	ELD - Estimated Cost	Cost
Analysis 1: 10/10/10	100	100	100	100	100	100
Analysis 2: 10/10/10	100	100	100	100	100	100
Analysis 3: 10/10/10	100	100	100	100	100	100
Analysis 4: 10/10/10	100	100	100	100	100	100
Analysis 5: 10/10/10	100	100	100	100	100	100
Analysis 6: 10/10/10	100	100	100	100	100	100
Analysis 7: 10/10/10	100	100	100	100	100	100
Analysis 8: 10/10/10	100	100	100	100	100	100
Analysis 9: 10/10/10	100	100	100	100	100	100
Analysis 10: 10/10/10	100	100	100	100	100	100
Analysis 11: 10/10/10	100	100	100	100	100	100
Analysis 12: 10/10/10	100	100	100	100	100	100
Analysis 13: 10/10/10	100	100	100	100	100	100
Analysis 14: 10/10/10	100	100	100	100	100	100
Analysis 15: 10/10/10	100	100	100	100	100	100
Analysis 16: 10/10/10	100	100	100	100	100	100
Analysis 17: 10/10/10	100	100	100	100	100	100
Analysis 18: 10/10/10	100	100	100	100	100	100
Analysis 19: 10/10/10	100	100	100	100	100	100
Analysis 20: 10/10/10	100	100	100	100	100	100
Analysis 21: 10/10/10	100	100	100	100	100	100
Analysis 22: 10/10/10	100	100	100	100	100	100
Analysis 23: 10/10/10	100	100	100	100	100	100
Analysis 24: 10/10/10	100	100	100	100	100	100
Analysis 25: 10/10/10	100	100	100	100	100	100
Analysis 26: 10/10/10	100	100	100	100	100	100
Analysis 27: 10/10/10	100	100	100	100	100	100
Analysis 28: 10/10/10	100	100	100	100	100	100
Analysis 29: 10/10/10	100	100	100	100	100	100
Analysis 30: 10/10/10	100	100	100	100	100	100
Analysis 31: 10/10/10	100	100	100	100	100	100
Analysis 32: 10/10/10	100	100	100	100	100	100
Analysis 33: 10/10/10	100	100	100	100	100	100
Analysis 34: 10/10/10	100	100	100	100	100	100
Analysis 35: 10/10/10	100	100	100	100	100	100
Analysis 36: 10/10/10	100	100	100	100	100	100
Analysis 37: 10/10/10	100	100	100	100	100	100
Analysis 38: 10/10/10	100	100	100	100	100	100
Analysis 39: 10/10/10	100	100	100	100	100	100
Analysis 40: 10/10/10	100	100	100	100	100	100
Analysis 41: 10/10/10	100	100	100	100	100	100
Analysis 42: 10/10/10	100	100	100	100	100	100
Analysis 43: 10/10/10	100	100	100	100	100	100
Analysis 44: 10/10/10	100	100	100	100	100	100
Analysis 45: 10/10/10	100	100	100	100	100	100
Analysis 46: 10/10/10	100	100	100	100	100	100
Analysis 47: 10/10/10	100	100	100	100	100	100
Analysis 48: 10/10/10	100	100	100	100	100	100
Analysis 49: 10/10/10	100	100	100	100	100	100
Analysis 50: 10/10/10	100	100	100	100	100	100



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: H09060048-001EMS 54 Sample Matrix Spike										Run: 1SATURN_090612A
										06/13/09 17:16
Bromomethane		9.76	ug/L	2.0	98	70	130			
Carbon disulfide		8.96	ug/L	2.0	90	70	130			
Carbon tetrachloride		8.08	ug/L	2.0	81	70	130			
Chlorobenzene		10.0	ug/L	2.0	100	70	130			
Chlorodibromomethane		9.68	ug/L	2.0	97	70	130			
Chloroethane		9.36	ug/L	2.0	94	70	130			
Chloroform		7.87	ug/L	2.0	79	70	130			
Chloromethane		10.7	ug/L	2.0	107	70	130			
1,2-Dibromo-3-chloropropane		9.04	ug/L	2.0	90	70	130			
1,2-Dibromoethane		8.64	ug/L	2.0	86	70	130			
Dibromomethane		10.1	ug/L	2.0	101	70	130			
1,2-Dichlorobenzene		9.68	ug/L	2.0	97	70	130			
1,4-Dichlorobenzene		10.5	ug/L	2.0	105	70	130			
trans-1,4-Dichloro-2-butene		9.12	ug/L	2.0	91	70	130			
Dichlorodifluoromethane		11.4	ug/L	2.0	114	70	130			
1,1-Dichloroethane		8.32	ug/L	2.0	83	70	130			
1,2-Dichloroethane		8.24	ug/L	2.0	82	70	130			
1,1-Dichloroethene		8.16	ug/L	2.0	82	70	130			
cis-1,2-Dichloroethene		8.88	ug/L	2.0	89	70	130			
trans-1,2-Dichloroethene		8.24	ug/L	2.0	82	70	130			
1,2-Dichloropropane		8.88	ug/L	2.0	89	70	130			
cis-1,3-Dichloropropene		10.2	ug/L	2.0	102	70	130			
trans-1,3-Dichloropropene		9.84	ug/L	2.0	98	70	130			
Ethylbenzene		11.0	ug/L	2.0	110	70	130			
2-Hexanone		91.2	ug/L	40	91	70	130			
Iodomethane		9.44	ug/L	2.0	94	70	130			
Methyl ethyl ketone		90.4	ug/L	40	90	70	130			
Methyl isobutyl ketone		90.4	ug/L	40	90	70	130			
Methylene chloride		7.47	ug/L	2.0	75	70	130			
Styrene		9.68	ug/L	2.0	97	70	130			
1,1,1,2-Tetrachloroethane		10.6	ug/L	2.0	106	70	130			
1,1,2,2-Tetrachloroethane		10.1	ug/L	2.0	101	70	130			
Tetrachloroethene		10.9	ug/L	2.0	109	70	130			
Toluene		10.1	ug/L	2.0	101	70	130			
1,1,1-Trichloroethane		8.48	ug/L	2.0	85	70	130			
1,1,2-Trichloroethane		10.6	ug/L	2.0	106	70	130			
Trichloroethene		9.76	ug/L	2.0	98	70	130			
Trichlorofluoromethane		10.9	ug/L	2.0	109	70	130			
1,2,3-Trichloropropane		9.92	ug/L	2.0	99	70	130			
Vinyl acetate		8.00	ug/L	2.0	80	70	130			
Vinyl chloride		10.1	ug/L	2.0	101	70	130			
m+p-Xylenes		19.8	ug/L	2.0	99	70	130			
o-Xylene		10.6	ug/L	2.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: H09060048-001EMS 54 Sample Matrix Spike										Run: 1SATURN_090612A 06/13/09 17:16
Xylenes, Total		30.4	ug/L	2.0	101	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	98	70	130			
Surr: Dibromofluoromethane				2.0	90	70	130			
Surr: p-Bromofluorobenzene				2.0	109	70	130			
Surr: Toluene-d8				2.0	117	70	130			
Sample ID: H09060048-001EMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_090612A 06/13/09 17:46
Acetone		88.0	ug/L	40	88	70	130	0	20	
Acrylonitrile		92.8	ug/L	40	93	70	130	2.6	20	
Benzene		8.64	ug/L	2.0	86	70	130	4.7	20	
Bromochloromethane		9.44	ug/L	2.0	94	70	130	7.9	20	
Bromodichloromethane		10.5	ug/L	2.0	105	70	130	12	20	
Bromoform		10.2	ug/L	2.0	102	70	130	14	20	
Bromomethane		8.88	ug/L	2.0	89	70	130	9.4	20	
Carbon disulfide		9.20	ug/L	2.0	92	70	130	2.6	20	
Carbon tetrachloride		8.64	ug/L	2.0	86	70	130	6.7	20	
Chlorobenzene		11.3	ug/L	2.0	113	70	130	12	20	
Chlorodibromomethane		11.0	ug/L	2.0	110	70	130	13	20	
Chloroethane		9.52	ug/L	2.0	95	70	130	1.7	20	
Chloroform		8.80	ug/L	2.0	88	70	130	11	20	
Chloromethane		10.6	ug/L	2.0	106	70	130	0.7	20	
1,2-Dibromo-3-chloropropane		10.1	ug/L	2.0	101	70	130	11	20	
1,2-Dibromoethane		9.52	ug/L	2.0	95	70	130	9.7	20	
Dibromomethane		10.6	ug/L	2.0	106	70	130	4.7	20	
1,2-Dichlorobenzene		10.9	ug/L	2.0	109	70	130	12	20	
1,4-Dichlorobenzene		10.6	ug/L	2.0	106	70	130	0.8	20	
trans-1,4-Dichloro-2-butene		10.2	ug/L	2.0	102	70	130	12	20	
Dichlorodifluoromethane		11.8	ug/L	2.0	118	70	130	2.8	20	
1,1-Dichloroethane		8.40	ug/L	2.0	84	70	130	1	20	
1,2-Dichloroethane		8.80	ug/L	2.0	88	70	130	6.6	20	
1,1-Dichloroethene		8.56	ug/L	2.0	86	70	130	4.8	20	
cis-1,2-Dichloroethene		8.96	ug/L	2.0	90	70	130	0.9	20	
trans-1,2-Dichloroethene		8.88	ug/L	2.0	89	70	130	7.5	20	
1,2-Dichloropropane		9.92	ug/L	2.0	99	70	130	11	20	
cis-1,3-Dichloropropene		10.8	ug/L	2.0	108	70	130	5.3	20	
trans-1,3-Dichloropropene		11.0	ug/L	2.0	110	70	130	11	20	
Ethylbenzene		11.7	ug/L	2.0	117	70	130	5.6	20	
2-Hexanone		91.2	ug/L	40	91	70	130	0	20	
Iodomethane		10.2	ug/L	2.0	102	70	130	8.1	20	
Methyl ethyl ketone		86.4	ug/L	40	86	70	130	4.5	20	
Methyl isobutyl ketone		96.8	ug/L	40	97	70	130	6.8	20	
Methylene chloride		8.08	ug/L	2.0	81	70	130	7.8	20	
Styrene		9.76	ug/L	2.0	98	70	130	0.8	20	
1,1,1,2-Tetrachloroethane		10.9	ug/L	2.0	109	70	130	3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54234
Sample ID: H09060048-001EMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_090612A 06/13/09 17:46
1,1,2,2-Tetrachloroethane		10.7	ug/L	2.0	107	70	130	6.2	20	
Tetrachloroethene		11.0	ug/L	2.0	110	70	130	1.5	20	
Toluene		10.8	ug/L	2.0	108	70	130	6.9	20	
1,1,1-Trichloroethane		8.96	ug/L	2.0	90	70	130	5.5	20	
1,1,2-Trichloroethane		11.0	ug/L	2.0	110	70	130	3	20	
Trichloroethene		10.1	ug/L	2.0	101	70	130	3.2	20	
Trichlorofluoromethane		10.7	ug/L	2.0	107	70	130	1.5	20	
1,2,3-Trichloropropane		9.28	ug/L	2.0	93	70	130	6.7	20	
Vinyl acetate		8.72	ug/L	2.0	87	70	130	8.6	20	
Vinyl chloride		10.0	ug/L	2.0	100	70	130	0.8	20	
m+p-Xylenes		23.3	ug/L	2.0	116	70	130	16	20	
o-Xylene		11.1	ug/L	2.0	111	70	130	5.2	20	
Xylenes, Total		34.4	ug/L	2.0	115	70	130	12	20	
Surr: 1,2-Dichloroethane-d4				2.0	98	70	130	0	20	
Surr: Dibromofluoromethane				2.0	87	70	130	0	20	
Surr: p-Bromofluorobenzene				2.0	115	70	130	0	20	
Surr: Toluene-d8				2.0	118	70	130	0	20	
Method: SW8260B										Batch: R54237
Sample ID: LCS061309A 5 Laboratory Control Sample										Run: 1SATURN_090613B 06/13/09 13:17
cis-1,2-Dichloroethene		4.40	ug/L	1.0	88	70	130			
Surr: Dibromofluoromethane				1.0	77	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	91	70	130			
Surr: Toluene-d8				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Sample ID: MBLK061309B 5 Method Blank										Run: 1SATURN_090613B 06/13/09 15:19
cis-1,2-Dichloroethene		ND	ug/L	1.0						
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Toluene-d8				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R54239								
Sample ID: LCS060809A	54	Laboratory Control Sample				Run: 1SATURN_090608D			06/08/09 10:07	
Benzene		4.40	ug/L	1.0	88	70	130			
Bromobenzene		4.56	ug/L	1.0	91	70	130			
Bromochloromethane		4.80	ug/L	1.0	96	70	130			
Bromodichloromethane		4.72	ug/L	1.0	94	70	130			
Bromoform		4.24	ug/L	1.0	85	70	130			
Bromomethane		4.20	ug/L	1.0	84	70	130			
Carbon tetrachloride		4.68	ug/L	1.0	94	70	130			
Chlorobenzene		5.00	ug/L	1.0	100	70	130			
Chlorodibromomethane		4.68	ug/L	1.0	94	70	130			
Chloroethane		4.80	ug/L	1.0	96	70	130			
2-Chloroethyl vinyl ether		4.88	ug/L	1.0	98	70	130			
Chloroform		4.64	ug/L	1.0	93	70	130			
Chloromethane		4.24	ug/L	1.0	85	70	130			
1,2-Dibromoethane		4.40	ug/L	1.0	88	70	130			
2-Chlorotoluene		5.20	ug/L	1.0	104	70	130			
4-Chlorotoluene		4.84	ug/L	1.0	97	70	130			
Dibromomethane		4.76	ug/L	1.0	95	70	130			
1,2-Dichlorobenzene		5.08	ug/L	1.0	102	70	130			
1,3-Dichlorobenzene		4.92	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
Dichlorodifluoromethane		3.75	ug/L	1.0	75	70	130			
1,1-Dichloroethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichloroethane		4.16	ug/L	1.0	83	70	130			
1,1-Dichloroethene		5.08	ug/L	1.0	102	70	130			
cis-1,2-Dichloroethene		4.56	ug/L	1.0	91	70	130			
trans-1,2-Dichloroethene		5.08	ug/L	1.0	102	70	130			
1,2-Dichloropropane		4.56	ug/L	1.0	91	70	130			
1,3-Dichloropropane		4.16	ug/L	1.0	83	70	130			
2,2-Dichloropropane		4.96	ug/L	1.0	99	70	130			
1,1-Dichloropropene		4.64	ug/L	1.0	93	70	130			
cis-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		4.64	ug/L	1.0	93	70	130			
Ethylbenzene		5.04	ug/L	1.0	101	70	130			
Methyl ethyl ketone		46.8	ug/L	20	94	70	130			
Methyl tert-butyl ether (MTBE)		4.72	ug/L	1.0	94	70	130			
Methylene chloride		4.84	ug/L	1.0	97	70	130			
Styrene		4.88	ug/L	1.0	98	70	130			
1,1,1,2-Tetrachloroethane		5.08	ug/L	1.0	102	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		4.96	ug/L	1.0	99	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		4.68	ug/L	1.0	94	70	130			
1,1,2-Trichloroethane		4.68	ug/L	1.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 06/24/09

Project: Mister M Landfill

Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R54239
Sample ID: LCS060809A	54	Laboratory Control Sample			Run: 1SATURN_090608D			06/08/09 10:07		
Trichloroethene		4.80	ug/L	1.0	96	70	130			
Trichlorofluoromethane		4.68	ug/L	1.0	94	70	130			
1,2,3-Trichloropropane		4.96	ug/L	1.0	99	70	130			
Vinyl chloride		4.40	ug/L	1.0	88	70	130			
m+p-Xylenes		10.0	ug/L	1.0	100	70	130			
o-Xylene		4.88	ug/L	1.0	98	70	130			
Xylenes, Total		14.9	ug/L	1.0	99	70	130			
Surr: Dibromofluoromethane				1.0	82	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	92	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Surr: p-Bromofluorobenzene				1.0	95	70	130			
Sample ID: MB060809A	54	Method Blank			Run: 1SATURN_090608D			06/08/09 12:21		
Benzene		ND	ug/L	1.0						
Bromobenzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
2-Chloroethyl vinyl ether		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
2-Chlorotoluene		ND	ug/L	1.0						
4-Chlorotoluene		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,3-Dichlorobenzene		ND	ug/L	1.0						
1,4-Dichlorobenzene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
1,3-Dichloropropane		ND	ug/L	1.0						
2,2-Dichloropropane		ND	ug/L	1.0						
1,1-Dichloropropene		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 06/24/09
Work Order: H09060101

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: MB060809A	54	Method Blank								
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl tert-butyl ether (MTBE)		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: Dibromofluoromethane				1.0	83	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	101	70	130			
Surr: Toluene-d8				1.0	100	70	130			
Surr: p-Bromofluorobenzene				1.0	104	70	130			

Batch: R54239

Run: 1SATURN_090608D

06/08/09 12:21

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Energy Laboratories Inc

Workorder Receipt Checklist


H09060101
MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 6/5/2009 12:08 PM

Reviewed by: Elizabeth Ulrich

Received by: rlt

Reviewed Date: 6/12/2009 10:54:00 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	2.2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☒	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	Not Applicable ☐

Contact and Corrective Action Comments:

MrM-LS01 has kidney shaped air bubble in all three vials. Added Sulfuric Acid to MrM-LS-01 & 02 Nutrient samples. Added Nitric Acid to metals container for MrM-LS-01 container. Wj

Closed

County Fergus
Facility & # Mister M #302
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



CLOSED MISTER M LANDFILL, LICENSE #302
LEWISTOWN, FERGUS COUNTY, MONTANA
JANUARY 2009 GROUNDWATER AND METHANE
SEMI-ANNUAL MONITORING RESULTS

Prepared By:

Montana Department of Environmental Quality

Solid Waste Section

February 25, 2009

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Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: <u>MT DEQ Solid Waste</u>	Project Name, PWS, Permit, Etc. <u>Master M Landfill</u>	Sample Origin State: <u>MT</u>	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: <u>PO Box 200901, Helena, MT 59620</u>	Contact Name: <u>Martin Van Dant</u>	Phone/Fax: <u>406-444-2802</u>	Email: <u>mdvanoot@mt.gov</u>
Invoice Address: <u>Same</u>	Invoice Contact & Phone: <u>Same</u>	Purchase Order:	Sampler: (Please Print) <u>Martin Van Dant & Joe Blaine</u>

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

- | | |
|---|--|
| ☐ DW | ☐ A2LA |
| ☐ GSA | ☐ EDD/EDT (Electronic Data) |
| ☐ POTW/WWTP | Format: _____ |
| ☒ State: <u>DEQ Solid Waste</u> | ☐ LEVEL IV |
| ☐ Other: <u>Table 1</u> | ☐ NELAC |

ANALYSIS REQUESTED

Number of Containers
Sample Type: AW S V B O
Air Water Soils/Solids
Vegetation Bioassay Other

VOCs *
Dissolved Metals
Cyanide
Sulfate, Chloride, pH, SC
Nitrate + Nitrite, COD

SEE ATTACHED

Normal Turnaround (TAT)

**R
U
S
H**

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:
Table 1 +
Dichlorodifluoromethane

Shipped by:

Hand
Cooler ID(s):

Receipt Temp

+ 0.6 °C

On Ice:

Yes ☒ No ☐

Custody Seal Y ☒

Intact Y ☒

Signature Match Y ☒

LABORATORY USE ONLY

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	VOCs	Dissolved Metals	Cyanide	Sulfate, Chloride, pH, SC	Nitrate + Nitrite, COD												
1 M-M-MW-OW1	1-21-09	1648	water	X	X	X	X	X												X
2 M-M-MW-10	1-22-09	915		X	X	X	X	X												X
3 M-M-MW-1	1-22-09	936		X	X		X	X												X
4 M-M-EB	1-22-09	1040		X	X	X	X	X												X
5 M-M-MW-HW	1-21-09	1315		X	X	X	X	X												X
6 Trip Blank				X																X
7																				
8																				
9																				
10																				

Custody Record MUST be Signed	Relinquished by (print): <u>Martin Van Dant</u>	Date/Time: <u>1-22-09 1502</u>	Signature: <u>[Signature]</u>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal: Return to Client: _____	Lab Disposal: <u>X</u>	Received by Laboratory: <u>Roxanne Pulis</u>	Date/Time: <u>1-22-09 15:02</u>	Signature: <u>[Signature]</u>	

1.0 INTRODUCTION

Groundwater and methane monitoring at the closed Mister M Landfill, License #302, was conducted in January 2009 by the Montana Department of Environmental Quality (MDEQ), Solid Waste Section, according to the January 2009 Sampling and Analysis Plan for Methane and Groundwater (SAP) (MDEQ, 2009). Mister M Landfill is located in Fergus County, Montana, approximately four miles east of Lewistown on US Highway 87, as shown in Figure 1. As shown in Figure 2, the landfill lies in a small south facing coulee which drains to Boyd Creek. The facility received Class II wastes from 1956 to 1998, and was granted interim closure status on December 5, 2000. The current owners, Marvin and Sandra Mintyala, operated the facility from 1974 until approximately 2000, when the site was abandoned.

According to the Geohydrologic Characterization (Gillespie, 1993 revised; and Gillespie, 1994) the landfill is underlain by the Kootenai Formation, which consists of predominately shale with some silty sandstone. A basal unit of sandstone in the Kootenai formation is the uppermost aquifer in the area. Minor amounts of water have been encountered in the upper portions of the Kootenai Formation but most of the monitoring wells completed at the site have frequently been dry or contained minimal volumes of water.

Previous groundwater sampling at the facility was conducted by the owners or their consultants from 1993-1999 (Gillespie, 1995 and 1996; Energy Laboratories, 1997, 1998 (1), and 1998 (2); and Portage Environmental, 1999 and 2000). From 2003-2007 Tetra Tech, Inc was authorized by the MDEQ to conduct groundwater monitoring in the absence of action by the owners (Energy Laboratories, 2003, 2004, 2005, 2006, and 2007; Maxim, 2005; Tetra Tech, 2006 and 2008). This monitoring event was conducted by MDEQ, Solid Waste Section personnel.

2.0 FIELD PROCEDURES

MDEQ Solid Waste Section personnel conducted all field activities on January 20-22, including monitoring well inspections, methane monitoring, static water level (SWL) measurements, and groundwater sample collection as part of the detection monitoring program currently in effect for

the facility. The locations of the monitoring points and the activities that were performed at each point are shown in Figure 3. All field activities described in this report were conducted in accordance with the approved January 2009 SAP, and any deviations from the SAP are described herein as required by ARM 17.50.108(15). The analysis of groundwater samples was conducted by Energy Laboratories Inc, in Helena, Montana.

2.1 WELL INSPECTIONS

All wells that could be located were inspected on January 21 as required in ARM 17.50.724(2). The locations of the wells were also recorded using a handheld GPS device. All of the wells at the facility require new caps for the inner casings, as caps are currently missing, of the incorrect type, or no longer functional. The methane wells do not have caps with a methane monitoring port. The Office Well (MW-OW) does not have an external casing or lock. The House Well (MW-HW) was not located but the frost-free spigot behind the house is operational.

2.2 METHANE MONITORING

Methane monitoring was conducted on January 21 at wells MW-8, MW-11M, MW-5M, and MW-6M using a GFG model G450 portable gas meter. The gas meter was calibrated to the reference standard prior to monitoring. Due to the lack of methane monitoring ports on the wells, monitoring was conducted by inserting the gas meter input tubing approximately six inches into the well and sealing the top as completely as possible with the cap. Methane monitoring was not conducted in site buildings due to access concerns.

2.3 WATER LEVEL MEASUREMENTS

Static water levels were measured on January 21 in wells MW-1, MW-2, MW-7R, MW-9R, MW-10R, and MW-OW using a Solinst electric water level meter. The water levels in MW-5 and MW-6 could not be measured because they were at a depth below the 101.5 foot length of the water level meter tape. The water level in MW-4 was not measured because it could not be located beneath the snow. The total depth of the wells was also recorded.

2.4 GROUNDWATER SAMPLING

Groundwater samples were collected on January 21 and 22 from wells MW-1, MW-10R, MW-HW, and MW-OW. No sample was collected from MW-5 due to insufficient volume of water in the well. No sample was collected at MW-9R because it was labeled MW-OW2 in the field, and was not correctly identified as MW-9R until further review of the facility files after sampling was completed. An equipment blank was collected on January 22 after completing the sampling at MW-1. No field duplicate was collected during this sampling event due to an oversight by field personnel. At each well that was sampled, samples were collected for all of the parameters listed in ARM 17.50.708 Table 1, except at MW-1 where no cyanide sample was collected due to insufficient water in the well.

The wells were purged and sampled following the procedures in the SAP with the deviations described below. All wells were purged and sampled using disposable bailers due to snow blocking vehicular access to the wells. Single check valve bailers were used because double check valve bailers were not available on short notice. Well MW-HW was purged and sampled using the installed pump and the frost-free spigot nearest to the back of the house. During the purging of MW-OW an old bailer that had been floating in the well was snagged and removed from the well. Field water quality measurements were made using a Horiba model U-10 water quality meter, which was calibrated to the auto-cal solution prior to use on January 21. An error was reported during calibration of the dissolved oxygen (DO) sensor and could not be resolved, thus the DO measurements may not be accurate. Oxidation-reduction potential (ORP) measurements were not taken because the field meter did not have an ORP sensor. Wells MW-1 and MW-10R were purged dry in the afternoon of January 21 and allowed to recover overnight prior to sampling.

After collection, the samples were labeled as described in the SAP, and were stored in a laboratory supplied cooler. Due to the cold ambient temperatures and to prevent freezing of the samples, no ice was placed in the coolers until returning from the sampling event. The samples were stored according to chain-of-custody requirements and hand delivered to Energy Laboratories Inc in Helena, Montana on January 22.

3.0 MONITORING RESULTS

3.1 METHANE MONITORING RESULTS

No methane was detected in any of the methane monitoring wells and oxygen levels were all at ambient atmospheric levels. A copy of the completed Methane Monitoring Form is included in Appendix A.

3.2 GROUNDWATER LEVELS AND FLOW

The groundwater levels measured during this sampling event were similar to previous measurements. Well MW-2 was dry and well MW-7 contained too little water to be measured with the probe (approximately three inches). Well MW-5 was too deep for the water level probe, however, when attempting to sample the well approximately two feet of water was obtained in the bailer. Table 1 contains the measured total depth, depth to water, and static water levels for January 21, 2009. Figure 1 displays the January 21, 2009 water levels on a map. No attempt was made to contour the static water levels as the shallow wells are completed in minor water bearing zones of unknown horizontal extent and connectivity, and only one water level measurement was made in the deep water bearing zone. Groundwater flow in the shallow water bearing zones likely follows local topography and flows in a south to southwest direction. Groundwater flow in the deep water bearing zone is assumed to be to the southwest based on records from domestic wells in the area. A copy of the completed Water Level Measurement Form is included in Appendix A. Tables containing historic water levels and hydrographs for both the shallow and deep water bearing zones are included in Appendix B.

3.3 DATA VALIDATION

Upon receipt from the laboratory, the analytical results were validated as described in the SAP to ensure that the data quality objectives had been met. The samples were received by the laboratory at a temperature of -0.6°C . While this temperature is below the recommended range of $4\pm 2^{\circ}\text{C}$, the samples were not frozen thus are acceptable. The pH of all samples were within acceptable limits. All samples were analyzed within the required holding times. The relative

percent difference between laboratory duplicates were all within control limits. No field duplicate was available. One out of the two matrix spike analyses for nitrate+nitrite and cyanide were outside of control limits, indicating that nitrate+nitrite may be biased low and cyanide biased high. There were no cyanide detections in the field samples, thus the high bias is not relevant. For nitrate+nitrite, the second matrix spike, the laboratory control sample, and the laboratory fortified blank were within control limits thus no data was flagged. All laboratory blanks were acceptable and no VOCs were detected in the Trip Blank. Bromodichloromethane and Chloroform were detected in the Equipment Blank with values of 0.89J and 22, respectively. These trihalomethanes are byproducts of chlorination and indicate tap water contamination, however neither compound was detected in any field sample thus no results were flagged. A copy of the laboratory QA/QC report is included in Appendix C.

3.4 GROUNDWATER ANALYTICAL RESULTS

The following sections discuss the analytical results grouped by analyte type. A copy of the laboratory analytical report is included in Appendix D. Historical concentration plots for all parameters detected during this sampling event and a table containing historical analytical results are included in Appendix E.

3.4.1 Indicator Parameters

Groundwater at the facility has a neutral to slightly alkaline pH, with values from 7.5 to 7.8 reported for this event. Specific conductance ranged from 678 in MW-OW to 1080 in MW-10R. Sulfate remained unusually low (non-detect) and chloride high (49 mg/L) in MW-OW, but were similar to previous events in all other wells. Nitrate + Nitrite was not detected in the deep wells and detected at values of 1.63 in MW-10R and 1.90 in MW-1, well below the maximum contaminant level (MCL) of 10mg/L and similar to previous values. Chemical oxygen demand is low in all wells with a maximum of 11 mg/L reported at MW-OW.

3.4.2 Dissolved Metals

Four metals were detected in facility wells during this sampling event. Barium was detected in MW-1 at 0.2 mg/L, which is normal for that well. Iron was detected in MW-OW at 2.87 mg/L,

which is lower than in December 2007 but remains higher than usual for that well. This concentration is greater than the secondary MCL for iron of 0.3 mg/L. Selenium was detected in MW-10R at 0.060 mg/L, which is greater than the MCL of 0.05 mg/L. However, selenium has been regularly detected at similar or higher levels in both MW-10R and MW-5, indicating that these are natural conditions in some shallow wells. Zinc was detected in MW-HW at 0.03 mg/L and in MW-OW at 0.29 mg/L. The zinc detection in MW-HW is typical for the deeper wells. The zinc concentration in MW-OW has decreased significantly from December 2007, but remains slightly elevated above historical values for that well.

3.4.3 Volatile Organic Compounds

Seven VOCs were detected in MW-OW during this sampling event (concentrations in ug/L): Benzene (1.1), Ethyl benzene (3.9), Styrene (2.6), Xylenes (0.61 J), cis-1,2-Dichloroethene (33), Trichloroethene (0.26 J), and Vinyl chloride (0.76 J). With the exception of Ethyl benzene, which increased from 3.3 ug/L, the concentrations of all VOCs decreased from December 2007. The number of compounds detected also decreased from nine to seven. Vinyl chloride remains above the Montana Human Health Standard for groundwater of 0.2 ug/L but below the MCL of 2 ug/L. VOCs were not detected in any other facility wells during this monitoring event.

4.0 STATISTICAL ANALYSIS

4.1 STATISTICAL METHODS

Statistical analyses were performed using the groundwater statistical software package Sanitas version 8.6. The analyses were conducted separately for the shallow (MW-1, MW-5, and MW-10R) and deep (MW-HW and MW-OW) wells. The validated analytical data was first screened to determine which parameters required statistical analysis. Only parameters which were detected in one or more compliance wells (MW-1, MW-10R, and MW-OW) and had been historically detected at least once in the appropriate background well (MW-5 or MW-HW) were analyzed. To increase the size of the background dataset for the shallow wells, the historical analytical results from cross gradient wells MW-6, MW-6M, and MW-11M were added to the MW-5 data. If a parameter was always non-detected in the background dataset, the background

value was set as the detection limit and any detection of that parameter was considered a statistical exceedance. As a result of this screening, the parameters selected for statistical analysis were: pH (shallow and deep), SC (shallow and deep), Chloride (shallow and deep), Sulfate (shallow), COD (shallow and deep), Nitrate + Nitrite (shallow), Barium (shallow), Iron (deep), Selenium (shallow), and Zinc (deep).

For the deep wells an intra-well prediction interval analysis was used to determine if the current analytical results from the MW-HW was consistent with historical results. Each selected parameter was then compared to the appropriate background dataset using an inter-well prediction interval analysis. The Sanitas software determines the distribution of the background dataset and performs the appropriate statistical test for that distribution. If the prediction interval analysis indicated an exceedance of background levels, a Sen's Slope/Mann Kendall test was conducted to analyze any trends in the data. All of the statistical tests were performed at a 95% confidence level, or the maximum confidence level that was possible given the size of the background dataset if a 95% confidence level was not possible.

4.2 ANALYSIS RESULTS

Table 2 contains a summary of the results of the statistical analyses. The full results of the statistical analyses are included in Appendix F. All parameters at MW-HW were within the intra-well prediction limit, thus all data from MW-HW were used for the deep well background dataset. Due to the small size of the background datasets the confidence levels for non-parametric tests were less than 95%. The tests for Chloride, COD, and Iron in MW-OW had a confidence level of 93.75% and the test for Barium in MW-1 had a confidence level of 88.89%. The background dataset for Selenium contained greater than 15% non-detects, thus Aitchison's adjustment was applied prior to calculating the prediction interval.

The values from the current sampling event for pH and SC for both the shallow and deep wells, Chloride, Sulfate, COD, and Nitrate + Nitrite in the shallow wells, and Selenium in MW-10R were within the prediction limits. Chloride, COD, Iron, and Zinc exceeded the prediction limits in MW-OW, however only Chloride exhibited a significant increasing trend. Barium exceeded the prediction limits in MW-1 but did not exhibit a significant increasing trend. Because none of

the seven VOCs detected in MW-OW have been detected in MW-HW, the prediction limits for these parameters was detection and all were exceedances. However, none of the parameters exhibited significant increasing trends.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Methane and groundwater monitoring was conducted by the MDEQ at the Mister M Landfill on January 20-22, 2009. Methane and oxygen levels were measured in four wells, water levels were measured in eight wells, and groundwater samples were collected from four wells. All wells that could be located were inspected. All wells on site require new caps and MW-OW has no external casing or lock.

No methane was detected in any site wells and oxygen levels were normal. Due to its location and the site topography, MW-11M is not useful as a methane monitoring point and methane monitoring at MW-11M will be discontinued for future events. An additional methane monitoring point should be added along the property line directly west of the fill area, as there are residences located immediately to the west of the landfill. Additionally, MW-2 will be monitored for methane as it lies directly between the fill area and the house to the southwest. The construction of MW-1 with a 20 foot screen makes it more appropriate as a methane monitoring well than MW-8, thus methane monitoring will be conducted at MW-1 instead of MW-8 in future events. The shed west of MW-10R is open on two sides and well ventilated and thus does not need to be monitored for methane, however methane monitoring will be conducted in the office building if it is not locked. The proposed future methane monitoring locations are thus: MW-1, MW-2, MW-5M, MW-6M, the office building if possible, and a new point directly west of the fill area when installed.

The static water levels measured during this event were normal for all wells. Because of the likely discontinuous nature of the shallow water bearing zones, and minimal water present in some wells, continued water level monitoring in the wells that are not sampled provides little useful information. These additional wells also may provide a pathway for contaminants to enter or migrate in the subsurface and thus should be abandoned. The wells that are proposed for

abandonment are MW-4, MW-6, MW-7, and MW-8. These wells would be abandoned according to the requirements in ARM 17.50.722.

Groundwater analytical results indicate that water quality in the shallow wells is normal and not impacted by the landfill. Selenium exceeded the MCL in MW-10R but did not statistically exceed background levels, as it has also been detected at similar concentrations in MW-5. Barium statistically exceeded background levels in MW-1 but does not show an increasing trend and exists at low concentrations that are commonly seen in natural waters. Wells MW-5, MW-9R, and MW-10R will continue to be sampled in future events. In the future, the purge water from MW-5 will be retained in an additional set of sample bottles in case the well does not recharge sufficiently to sample after purging. MW-1 will be converted to a methane monitoring well as described above. MW-1 is down-gradient of MW-9R and MW-10R and does not produce sufficient water to collect a full set of samples, thus is not necessary as a groundwater monitoring well. The water quality in MW-HW continues to be normal and not impacted by the landfill. MW-HW will continue to be sampled on a regular basis to increase the background dataset size for the deep wells. Well MW-OW continues to show both inorganic and organic contamination. Chloride and Iron have shown unusually high values during the last two monitoring event, and Sulfate has been unusually low. Zinc concentrations spiked during the last monitoring event, and while they decreased during this event they remain above background levels. VOCs continued to be detected in MW-OW at generally low levels but Vinyl chloride exceeds the Montana Human Health Standard for groundwater.

The owner conducted some groundwater sampling while the facility was in operation and was known to not follow clean or careful sampling practices. As noted earlier, a disposable bailer was found to be floating in the well and extracted while bailing for this event. MW-OW was also originally a water supply well for the landfill office and thus at one time contained permanently installed equipment of unknown cleanliness. The contamination in MW-OW is most likely due to direct contamination of the well and not due to migration from the landfill. To attempt to remove the contamination from this well and prevent further contaminants from entering the aquifer from this well, the well will be redeveloped by pumping at its maximum sustainable rate for an extended period of time. This pumping would remove all stagnant water

from the well and produce a cone of depression around the well that would draw any nearby contaminated water back into the well to be removed. Discharging the water through an aeration nozzle into the upper detention pond should provide adequate removal of the low levels of VOCs present to prevent contamination of the detention pond.

The proposed changes to the monitoring procedures will be reflected in an updated Groundwater and Methane Sampling and Analysis Plan which will be prepared for approval prior to the next sampling event. A proposed work plan containing the details for the monitoring well abandonment, new methane monitoring point installation, and the MW-OW redevelopment will be prepared for approval. The next quarterly methane monitoring event will occur in March 2009. The facility should continue to perform semi-annual detection monitoring with the next groundwater sampling event being conducted in June 2009.

6.0 REFERENCES

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Table 1: Summary of Water Level and Total Depth Measurements

Well	Depth to Water (ft)	Reference Elevation (ft)	Water Level (ft)	Total Depth (ft)
AW-1	18.85	4111.15 ⁽¹⁾	4129.95	23.10
AW-2	Dry	4191.48	NA	21.8
MW-4	RM	4197.15	4197.15	12.5
MW-5	Unusable ⁽²⁾	4208.15	4192.75 ⁽³⁾	Unusable
MW-6	Unusable ⁽²⁾	4254.15	4192.75 ⁽³⁾	Unusable
MW-7K	Dry ⁽⁴⁾	4101.41	4179.45 ⁽¹⁾	26.17
AW-8K	11.85	4200 ⁽²⁾	4178	22.07
MW-10K	31.25	4200 ⁽²⁾	4169	30.25
MW-OW	35.65	4178 ⁽⁴⁾	4162	28.5

Notes:

RM - Red Mudstone

(1) Depth from base of 2 ft of water in well. DWT calculated from Thursday 1/2/2019

(2) Pumped down well

(3) 2 ft of water in well. DWT calculated

(4) Reference elevation from spot level. (Source: 1985)

TABLES

Table 1: Summary of Water Level and Total Depth Measurements

Well	Depth to Water (ft)	Reference Elevation (ft)	Static Water Level	Total Depth (ft)
MW-1	18.85	4171.97	4153.12	23.575
MW-2	Dry	4196.44	Dry	22.6
MW-4	NM	4197.11	NM	NM
MW-5	Unknown ⁽¹⁾	4268.35	4165.75 ⁽¹⁾	Unknown ⁽¹⁾
MW-6	Unknown ⁽²⁾	4264.37	Unknown ⁽²⁾	Unknown ⁽²⁾
MW-7R	Dry ⁽³⁾	4196.41	4176.49 ⁽³⁾	20.17
MW-9R	41.85	4200 ⁽⁴⁾	4158	50.03
MW-10R	31.25	4200 ⁽⁴⁾	4169	50.25
MW-OW	32.65	4195 ⁽⁴⁾	4162	78.5

Notes:

NM = Not Measured

(1) Deeper than tape, 2 ft. of water in well, SWL calculated from TD recorded 12/18/07

(2) Deeper than tape

(3) 3 in. of water in well, SWL calculated from TD

(4) Reference elevation estimated from topographic contours (5ft)

Table 2: Summary of Results of Statistical Analyses

Parameter	Well	Prediction Interval Analysis					Trend Analysis	
		Distribution	Conf. Level (%)	Prediction Limit(s)	Result	Exceedance ?	Slope (per yr)	Significant ?
pH	MW-1	normal	95	8.12 - 7.15	7.5	No	N/A	N/A
	MW-10R	normal	95	8.12 - 7.15	7.8	No	N/A	N/A
	MW-OW	normal	95	7.87 - 6.98	7.8	No	N/A	N/A
SC	MW-1	normal	95	1284	805	No	N/A	N/A
	MW-10R	normal	95	1284	1080	No	N/A	N/A
	MW-OW	normal	95	841.2	678	No	N/A	N/A
Chloride	MW-1	ln-normal	95	20.4	19	No	N/A	N/A
	MW-10R	ln-normal	95	20.4	17	No	N/A	N/A
	MW-OW	non-normal	93.75	10	49	Yes	+0.881	Yes
Sulfate	MW-1	normal	95	99.2	23	No	N/A	N/A
	MW-10R	normal	95	99.2	89	No	N/A	N/A
COD	MW-1	ln-normal	95	161.9	5	No	N/A	N/A
	MW-10R	ln-normal	95	161.9	4	No	N/A	N/A
	MW-OW	non-normal	93.75	9	11	Yes	+0.305	No
Nitrate+Nitrite	MW-1	normal	95	3.585	1.90	No	N/A	N/A
	MW-10R	normal	95	3.585	1.63	No	N/A	N/A
Barium	MW-1	non-normal	88.89	0.15	0.2	Yes	+0.006	No
Iron	MW-OW	non-normal	93.75	0.52	2.87	Yes	+0.072	No
Selenium	MW-10R	normal	95	0.192	0.060	No	N/A	N/A
Zinc	MW-OW	normal	95	0.054	0.29	Yes	+0.015	No
Benzene	MW-OW	ND	N/A	ND	1.1	Yes	+0.007	No
cis-1,2-DCE	MW-OW	ND	N/A	ND	33	Yes	+1.908	No
Ethyl benzene	MW-OW	ND	N/A	ND	3.9	Yes	0	Yes
Styrene	MW-OW	ND	N/A	ND	2.6	Yes	0	Yes
Trichloroethene	MW-OW	ND	N/A	ND	0.26 J	Yes	0	No
Vinyl chloride	MW-OW	ND	N/A	ND	0.73 J	Yes	0	No
Xylenes	MW-OW	ND	N/A	ND	0.61 J	Yes	0	No

Notes:

ND = Non-detect

N/A = Not applicable

FIGURES

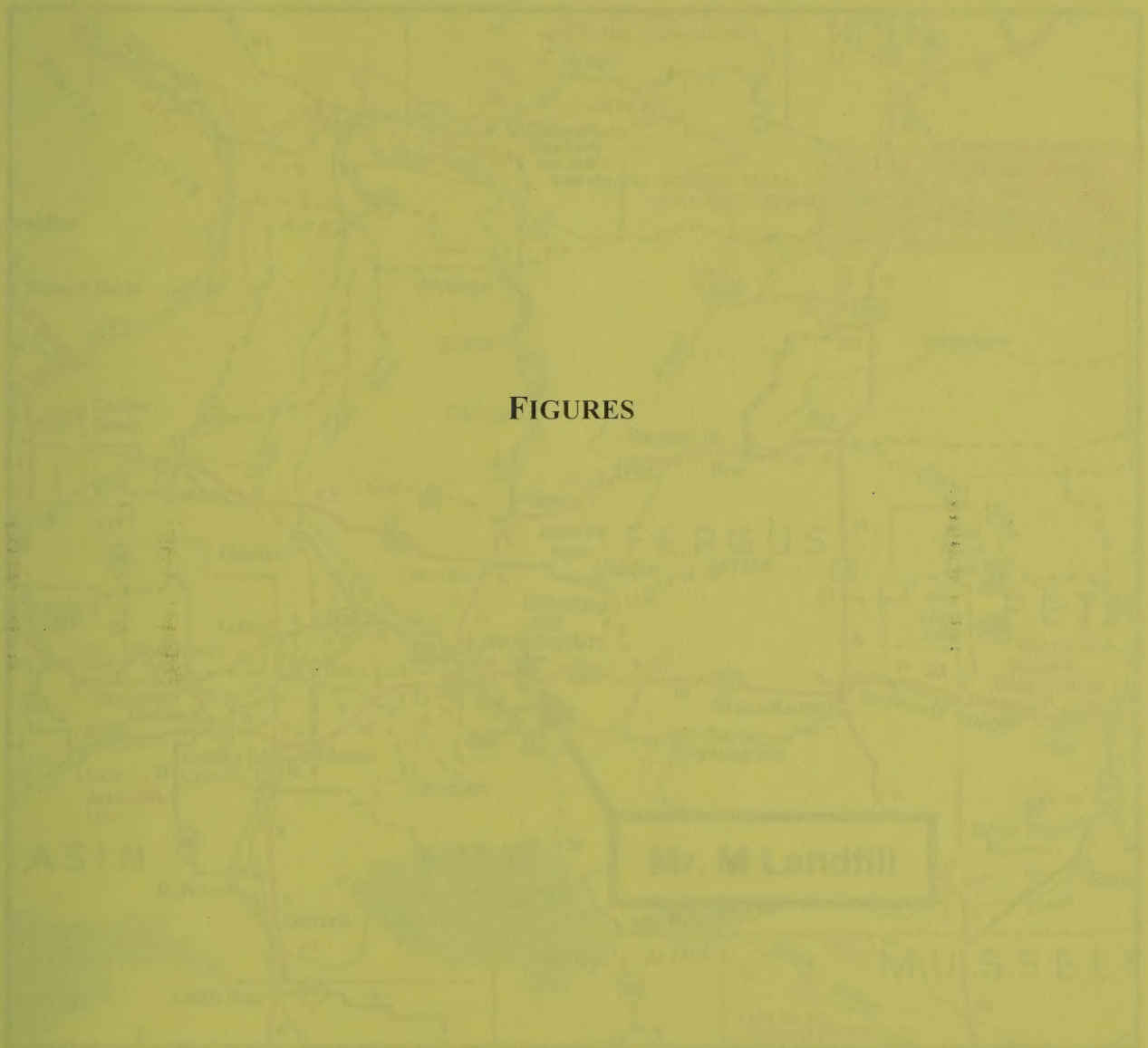


Figure 1: Location Map

Adapted from State of Montana Highway Map.



Figure 1: Location Map

Adapted from State of Montana Highway Map.

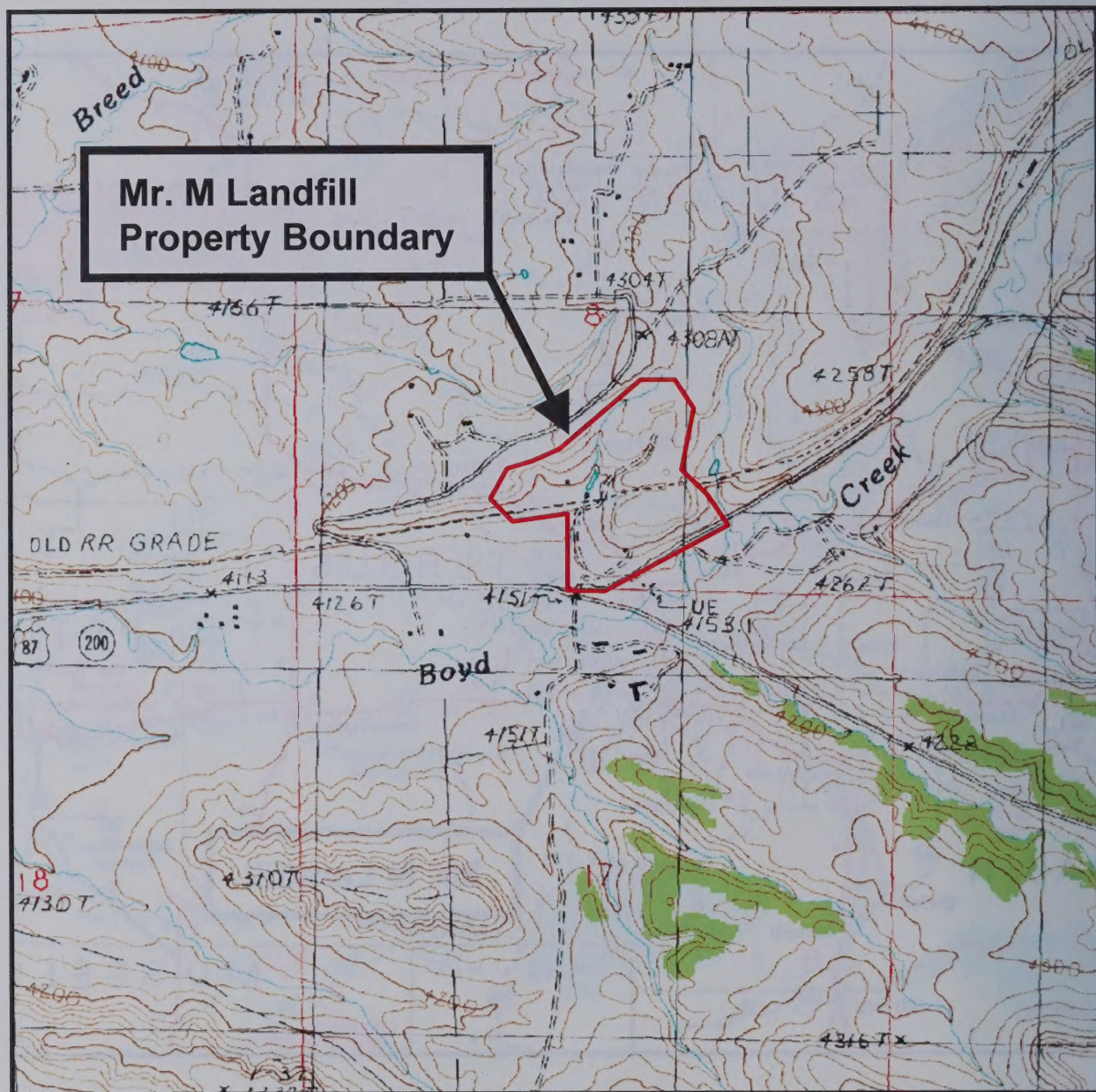


Figure 2: Facility Map

Adapted from USGS Pike Creek 24k Quadrangle.



Figure 3: Locations of Monitoring Points

Base Aerial Photo from 2004.



Figure 4: Groundwater Levels

Base Aerial Photo from 2004.

Wetland Delineation Form

Project: Wetland Delineation Date: 11/1/07

Location: 1000 N. 1st St. & 1st St. SW

Field Conditions: Clear, 40%

Water Depth: 0.5m - 0.50

Observer: 11/1/07

Time: 1:00 Weather: 50% cloudy Temperature: 72°F Humidity: 75%

Vegetation Type	Depth	Width	Notes
<u>Wetland</u>	<u>0.50m</u>	<u>0.50m</u>	
<u>Wetland</u>	<u>0.50m</u>	<u>0.50m</u>	
<u>Wetland</u>	<u>0.50m</u>	<u>0.50m</u>	
<u>Wetland</u>	<u>0.50m</u>	<u>0.50m</u>	

APPENDIX A: FIELD FORMS

Notes: Wetland 11/1/07

Methane Monitoring Form

Master M Landfill

Date: 1-21-09

Martin Van Oort & Joe Blum

Sunny, 40°S

6FG 6450

Calibration 1-16-09

Standard: 50% LEL

42.3%

49.8%

[illegible]

Notes: _____

Signature: 

Site Name: Master M Date: 1-21-09
 Personnel: Joe Blaise + Martin Van Doot Equipment: Sabast w/ 100ft type
 Field Conditions: Partly cloudy, 40's

[illegible]

Notes: Reference elevation from GPS. Could not locate MW-9 & MW-4.

Notes MW-OW2 was later identified as MW-8R, MVO-2/17/08

Signature: _____

Page 6 of 6

Water Quality Meter Calibration Form

Site Name: Misc M

Date: 1-21-09

Personnel: Joe Blaine & Martin Van Dort

Field Conditions: Partly Cloudy & 40's, snow cover

Meter Model: Horiba U-10

Parameters/Sensors: pH, Cond, Turb, DO, Temp

[illegible]

Notes: ON sensor may not be working, properly

Signature:

with light

Monitoring Well Purging and Sampling Form

Site Name: Mistr M Sample Location: MW-HW

Personnel: Joe Blaine + Martin Van Oort Sample ID: M-M-MW-HW

Date: 1-21-08 Field Conditions: Mostly Sunny, 40's

Condition of Well: first free spigot next to house

Depth to Water (DTW): — Total Depth of Well (TD): —

Well Diameter: — Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: — Three Well Volumes: —

Purge Equipment: Inst. 11.1 pump Pump Depth: — Start Time: 12:54

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1256	5			5.78	608	4.3		48	210	
1301	15			6.17	609	6.1		38	<10	
1304	20			6.39	606	7.1		33	<10	
1308	25			6.57	611	7.1		3	<10	
1310	30			6.69	610	7.3		29	<10	

Sample Time: 1315 Sampling Method: spigot

Containers	Preservative	Parameters	Comments
2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	
250mL Plastic	HNO ₃	Dissolved Metals	
250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 45.1 Final Depth to Water: — End Time: 1324

Notes:

Sampler Signature: W. H. W. Page 1 of 1

Monitoring Well Purging and Sampling Form

Site Name: Mister M Sample Location: MW-0W1

Personnel: Martin Van Oort & Joe Blum Sample ID: MrM-MW-0W1

Date: 1-21-09 Field Conditions: partly sunny, 40°s

Condition of Well: No steel cover, not labeled, cap not screwed on correctly

Depth to Water (DTW): 32.65 Total Depth of Well (TD): 78.5

Well Diameter: 4" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 29.9 Three Well Volumes: 89.8

Purge Equipment: Disp. Bailer Pump Depth: — Start Time: 1552

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1553	0.5			7.53	0.506	8.3		0.07	67	
1603	3.0			7.50	0.503	8.3		0.02	69	Yellowish water
1613	6.2			7.48	0.505	8.9		0.03	23	
1623	9.0			7.47	0.507	8.7		0.04	28	
1631	12.0			7.48	0.507	8.5		0.05	2	
1638	14.5			7.48	0.507	8.5		0.05	1	
1645	18			7.46	0.506	8.4		0.08	7	

Sample Time: 1648 Sampling Method: Disp. Bailer

Containers	Preservative	Parameters	Comments
✓ 2 x 40mL Vial	HCl	VOCs	
✓ 250mL Plastic	NaOH	Cyanide	
✓ 250mL Plastic	HNO ₃	Dissolved Metals	
✓ 250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
✓ 250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: 18 Final Depth to Water: — End Time: 1702

Notes: While purging fished old bailer out of well.

Sampler Signature:

W. H. H.

Monitoring Well Purging and Sampling Form

Site Name: Mister M Sample Location: MW-10

Personnel: Martin Van Dort & Joe Blum Sample ID: M-M-MW-10

Date: 1-21-09 Field Conditions: sunny, ~50°

Condition of Well: good, not labeled

Depth to Water (DTW): 31.25 Total Depth of Well (TD): 50.25

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 3.1 Three Well Volumes: 9.29

Purge Equipment: Disp. Bailer Pump Depth: — Start Time: 1500

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1500				7.59	1.04	8.0		0.02	<10	
1508	1.7			7.32	1.05	8.0		0.07	540	
1515	3.4			7.28	1.05	8.1		0.07	508	
1524	6.2			7.24	1.06	8.3		0.07	284	
1540	8.8			7.21	1.06	8.4		0.08	2999	
1542										Drx not 8.7, 1

Sample Time: 915 ¹⁻²²⁻⁰⁹ Sampling Method: Disp. Bailer

Containers	Preservative	Parameters	Comments
✓ 2 x 40mL Vial	HCl	VOCs	
✓ 250mL Plastic	NaOH	Cyanide	
✓ 250mL Plastic	HNO ₃	Dissolved Metals	
✓ 250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
✓ 250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: ~9.5 Final Depth to Water: — End Time: 930

Notes: Purged day after 9 gallons, let recover overnight

Sampler Signature: Walt

Monitoring Well Purging and Sampling Form

Site Name: Master M Sample Location: MW-1

Personnel: Joe Blaine + Martin Van Oort Sample ID: M-M-MW-1

Date: 1-21-09 Field Conditions: Sunny ~ 50°, snow cover

Condition of Well: good, ~~the~~ cap not screw on correctly, not labeled

Depth to Water (DTW): 18.85 Total Depth of Well (TD): 23.875

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: 0.82 Three Well Volumes: 2.46

Purge Equipment: Disp. Bailer Pump Depth: — Start Time: 1428

Time	Vol. (gal)	Rate (gpm)	DTW (feet)	pH (stu)	SC (mS/cm)	Temp. (°C)	ORP (mV)	DO (mg/L)	Turb. (NTU)	Comments
1428				6.81	0.615	9.6		0.07	<10	
1434	0.35			6.94	0.598	9.6		0.08	75	Lt Brown water
1438	0.75			6.92	0.615	9.2		0.07	73	
1442										Dry at 1 gal

Sample Time: 936 ¹⁻²²⁻⁰⁹ Sampling Method: Disp. Bailer

Containers	Preservative	Parameters	Comments
✓ 2 x 40mL Vial	HCl	VOCs	
250mL Plastic	NaOH	Cyanide	not enough water
✓ 250mL Plastic	HNO ₃	Dissolved Metals	
✓ 250mL Plastic	H ₂ SO ₄	Nitrate+Nitrite, COD	
✓ 250mL Plastic	none	Sulfate, Chloride, pH, SC	

Total Volume Purged: ~ 1.5 gal Final Depth to Water: — End Time: 1000

Notes: Purged day after w 1 gal, lot recover overnight

Sampler Signature:

[Signature]

Site Name: M. str M Sample Location: MW-5

Personnel: Joe Blaine & Martin Van Oort Sample ID: M-M-MW-S

Date: 1-22-08 Field Conditions: Cold & windy, cloudy

Condition of Well: good, not labeled, no cap

Depth to Water (DTW): ~ 2 ft of water Total Depth of Well (TD): unknown (too deep for)

Well Diameter: 2" Well Diameter Constant (C): 2" = 0.163 4" = 0.653 6" = 1.469

One Well Volume (gallons) = (TD - DTW) x C: Three Well Volumes:

Purge Equipment: Disper-Bator Pump-Depth: 1 Start Time: 830

Sample Time: _____ Sampling Method: _____

Total Volume Purged: ~0.25 gal Final Depth to Water: ~1.5 End Time: 845

Notes: Not enough water to sample

Sampler Signature:

APPENDIX B: HISTORICAL GROUNDWATER LEVELS

APPENDIX I

Notes:

1961 - 1962: 1961-1962

1963 - 1964: 1963-1964

1965 - 1966: 1965-1966

1967 - 1968: 1967-1968

1969 - 1970: 1969-1970

1971 - 1972: 1971-1972

1973 - 1974: 1973-1974

1975 - 1976: 1975-1976

1977 - 1978: 1977-1978

1979 - 1980: 1979-1980

1981 - 1982: 1981-1982

1983 - 1984: 1983-1984

1985 - 1986: 1985-1986

1987 - 1988: 1987-1988

1989 - 1990: 1989-1990

1991 - 1992: 1991-1992

1993 - 1994: 1993-1994

1995 - 1996: 1995-1996

1997 - 1998: 1997-1998

1999 - 2000: 1999-2000

2001 - 2002: 2001-2002

2003 - 2004: 2003-2004

2005 - 2006: 2005-2006

2007 - 2008: 2007-2008

2009 - 2010: 2009-2010

2011 - 2012: 2011-2012

2013 - 2014: 2013-2014

2015 - 2016: 2015-2016

2017 - 2018: 2017-2018

2019 - 2020: 2019-2020

2021 - 2022: 2021-2022

2023 - 2024: 2023-2024

2025 - 2026: 2025-2026

2027 - 2028: 2027-2028

2029 - 2030: 2029-2030

2031 - 2032: 2031-2032

2033 - 2034: 2033-2034

2035 - 2036: 2035-2036

2037 - 2038: 2037-2038

2039 - 2040: 2039-2040

2041 - 2042: 2041-2042

2043 - 2044: 2043-2044

2045 - 2046: 2045-2046

2047 - 2048: 2047-2048

2049 - 2050: 2049-2050

2051 - 2052: 2051-2052

2053 - 2054: 2053-2054

2055 - 2056: 2055-2056

2057 - 2058: 2057-2058

2059 - 2060: 2059-2060

2061 - 2062: 2061-2062

2063 - 2064: 2063-2064

2065 - 2066: 2065-2066

2067 - 2068: 2067-2068

2069 - 2070: 2069-2070

2071 - 2072: 2071-2072

2073 - 2074: 2073-2074

2075 - 2076: 2075-2076

2077 - 2078: 2077-2078

2079 - 2080: 2079-2080

2081 - 2082: 2081-2082

2083 - 2084: 2083-2084

2085 - 2086: 2085-2086

2087 - 2088: 2087-2088

2089 - 2090: 2089-2090

2091 - 2092: 2091-2092

2093 - 2094: 2093-2094

2095 - 2096: 2095-2096

2097 - 2098: 2097-2098

2099 - 2100: 2099-2100

Figure B-1: Static Water Levels in Shallow Wells

Table B-1: Historical Water Levels

Date	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-7R	MW-8	MW-9	MW-9R	MW-10	MW-10R	MW-OW
6/16/93	Dry	Dry	Dry	Dry	Dry	Dry	N/A	Dry	N/A	N/A	N/A	N/A	NM
10/14/94	NM	NM	NM	NM	NM	NM	N/A	NM	Dry	N/A	4155.69	N/A	NM
12/15/95	4154.12	Dry	Dry	4177.65	4160.64	4173.00	N/A	Dry	4140.77	N/A	4160.92	N/A	NM
3/28/96	4157.37	NM	NM	NM	NM	4176.51	N/A	NM	4139.43	N/A	4158.09	N/A	NM
11/29/05	4154.17	4174.1	NM	4181.82	Dry	N/A	Dry	4155.06	N/A	4158 ⁽¹⁾	N/A	4166 ⁽¹⁾	NM
12/18/07	Dry	Dry	Dry	4165.54	Dry	N/A	Dry	4155.04	N/A	4158 ⁽¹⁾	N/A	4169 ⁽¹⁾	4161 ⁽¹⁾
1/21/09	4153.12	Dry	NM	4165.75 ⁽²⁾	NM ⁽³⁾	N/A	4176.49 ⁽⁴⁾	NM	N/A	4158 ⁽¹⁾	N/A	4169 ⁽¹⁾	4162 ⁽¹⁾

Notes:

NM = Not measured

N/A = Not applicable

(1) Reference elevation estimated from topographic contours (5ft)

(2) Deeper than tape, 2 ft. of water in well, DTW calculated from TD recorded 12/18/07

(3) Deeper than tape, DTW unknown

(4) 3 in. of water in well, DTW calculated from TD

Figure B-1: Static Water Levels in Shallow Wells

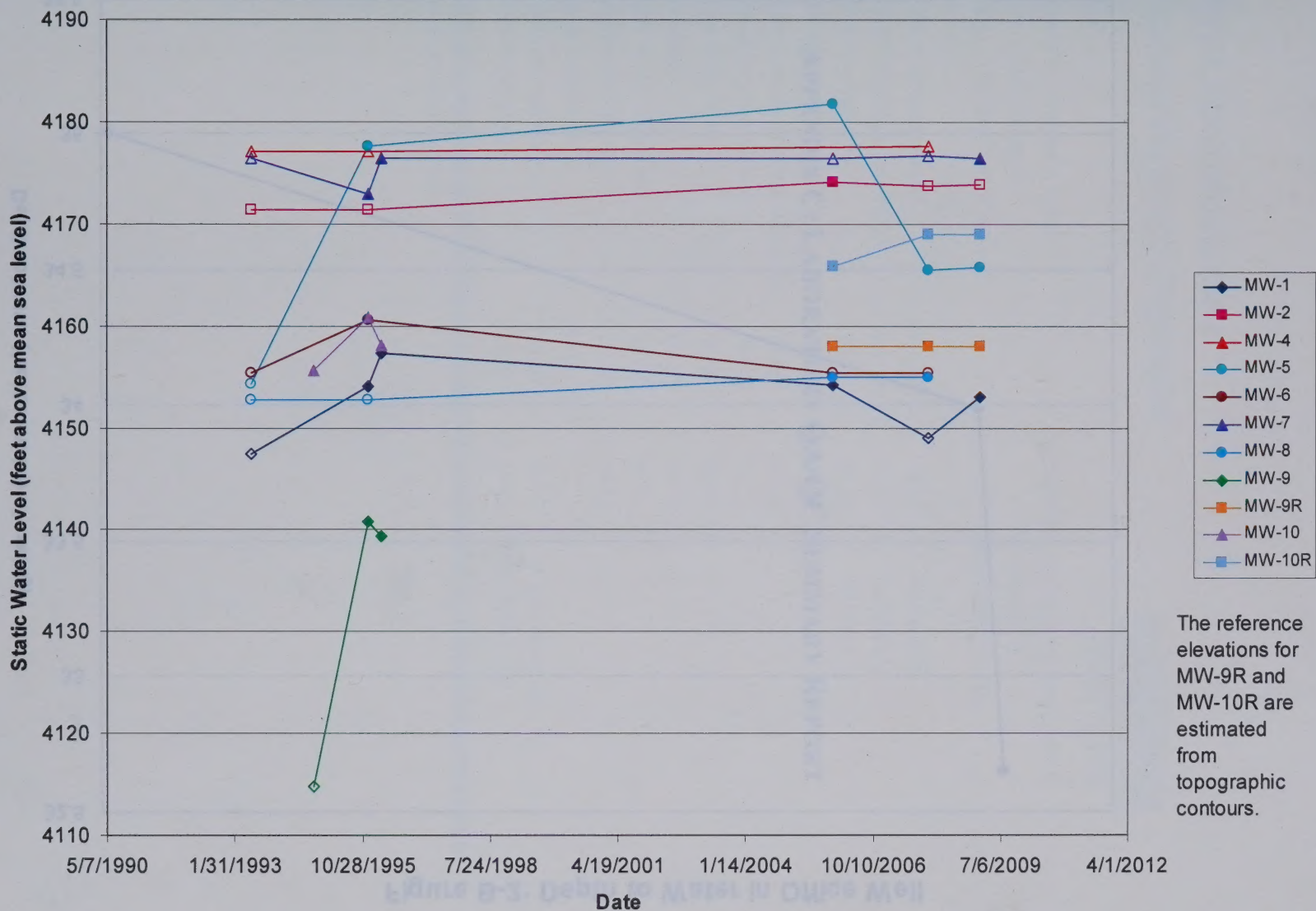
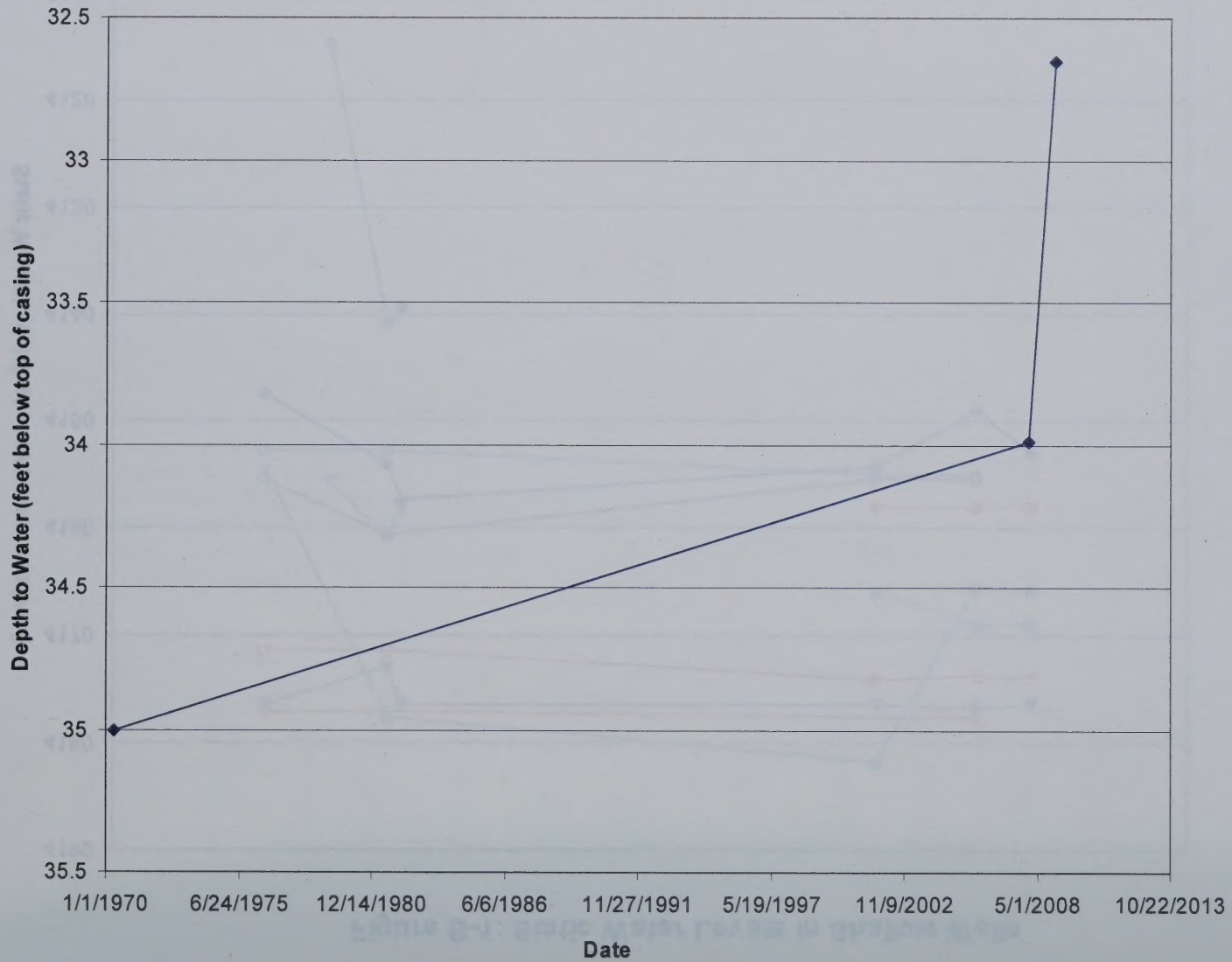


Figure B-2: Depth to Water in Office Well



Energy Laboratories Inc.

Workorder Receipt Checklist

MT DSO

Customer Name: [Faint text]

Customer Address: [Faint text]

Customer Phone: [Faint text]

Workorder Number: [Faint text]

Customer Name: [Faint text]

Customer Address: [Faint text]

APPENDIX C: LABORATORY QA/QC SUMMARY REPORT

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Checklist Item: [Faint text]

Customer Name: [Faint text]

Date: [Faint text]

Energy Laboratories Inc

Workorder Receipt Checklist



MT DEQ

H09010168

Login completed by: Roxanne L. Tubbs

Date and Time Received: 1/22/2009 3:02 PM

Reviewed by: Kathy Wiegand

Received by: rlt

Reviewed Date: 1/23/2009 11:31:00 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	-0.6°C		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: <u>MT DEQ Solid Waste</u>	Project Name, PWS, Permit, Etc. <u>Master M Landfill</u>	Sample Origin State: <u>MT</u>	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: <u>PO Box 200901, Helena, MT 59620</u>	Contact Name: <u>Martin Van Dant</u>	Phone/Fax: <u>406-444-2802</u>	Email: <u>mdvanooant@mt.gov</u>
Invoice Address: <u>Same</u>	Invoice Contact & Phone: <u>Same</u>	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

- | | |
|---|--|
| ☐ DW | ☐ A2LA |
| ☐ GSA | ☐ EDD/EDT (Electronic Data) |
| ☐ POTW/WWTP | Format: _____ |
| ☒ State: <u>DEQ Solid Waste</u> | ☐ LEVEL IV |
| ☐ Other: <u>Table 1</u> | ☐ NELAC |

ANALYSIS REQUESTED

Number of Containers
Sample Type: AWS VBO
Air Water Solids/Solids
Vegetation Bioassay Other

MATRIX	VOCs *	Dissolved Metals	Cyanide	Sulfate, Chloride, pH, SC	Nitrate + Nitrite, COD	SEE ATTACHED	Normal Turnaround (TAT)
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**R
U
S
H**

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Table 1 + Dichlorodifluoromethane

Shipped by:

Hand
Cooler ID(s):

Receipt Temp

-0.5 °C

On Ice:

Yes ☒ No ☐

Custody Seal Y ☒

Intact Y ☒

Signature Match Y ☒

LABORATORY USE ONLY

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	VOCs *	Dissolved Metals	Cyanide	Sulfate, Chloride, pH, SC	Nitrate + Nitrite, COD	SEE ATTACHED	Normal Turnaround (TAT)
¹ M-M-MW-OWI	1-21-09	1648	water	X	X	X	X	X		X
² M-M-MW-10	1-22-09	915		X	X	X	X	X		X
³ M-M-MW-1	1-22-09	936		X	X		X	X		X
⁴ M-M-EB	1-22-09	1040		X	X	X	X	X		X
⁵ M-M-MW-HW	1-21-09	1315		X	X	X	X	X		X
⁶ Trip Blank				X						X
⁷										
⁸										
⁹										
¹⁰										

Custody Record MUST be Signed	Relinquished by (print): <u>Martin Van Dant</u>	Date/Time: <u>1-22-09 1502</u>	Signature: <u>[Signature]</u>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal: Return to Client:	Lab Disposal: <u>X</u>	Received by Laboratory: <u>Koxanne Pugh</u>	Date/Time: <u>1-22-09 15:02</u>	Signature: <u>[Signature]</u>	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B Batch: 090123A-COND-PROBE-W										
Sample ID: LCS1_090123A	Laboratory Control Sample			Run: COND_090122B			01/23/09 14:48			
Conductivity		1410	umhos/cm	1.0	100	90	110			
Sample ID: H09010168-003ADUP	Sample Duplicate			Run: COND_090122B			01/23/09 14:52			
Conductivity		810	umhos/cm	1.0				0.6	10	
Method: A4500-H B Batch: 090123A-PH-W										
Sample ID: LCS1_090123A	Laboratory Control Sample			Run: PH_090123A			01/23/09 14:27			
pH		7.02	s.u.	0.10	100	99	101			
Sample ID: H09010168-003ADUP	Sample Duplicate			Run: PH_090123A			01/23/09 14:33			
pH		7.50	s.u.	0.10				0.1	2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 02/09/09

Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Analytical Run: SUB-B123963
Sample ID: ICV	5	Continuing Calibration Verification Standard								01/26/09 11:41
Beryllium		1.26	mg/L	0.010	101	95	105			
Chromium		2.54	mg/L	0.050	102	95	105			
Cobalt		2.41	mg/L	0.020	97	95	105			
Iron		2.50	mg/L	0.030	100	95	105			
Vanadium		2.47	mg/L	0.10	99	95	105			
Method: E200.7										Batch: B_R123963
Sample ID: MB-TJADIS090126A	5	Method Blank								Run: SUB-B123963 01/26/09 12:08
Beryllium		ND	mg/L	0.0002						
Chromium		ND	mg/L	0.004						
Cobalt		ND	mg/L	0.003						
Iron		ND	mg/L	0.005						
Vanadium		ND	mg/L	0.006						
Sample ID: LFB-TJADIS090126A	5	Laboratory Fortified Blank								Run: SUB-B123963 01/26/09 12:12
Beryllium		0.523	mg/L	0.010	105	85	115			
Chromium		1.03	mg/L	0.050	103	85	115			
Cobalt		0.990	mg/L	0.020	99	85	115			
Iron		5.09	mg/L	0.030	102	85	115			
Vanadium		0.993	mg/L	0.10	99	85	115			
Sample ID: H09010168-004C	5	Sample Matrix Spike								Run: SUB-B123963 01/26/09 20:04
Beryllium		0.975	mg/L	0.0010	97	70	130			
Chromium		2.07	mg/L	0.010	103	70	130			
Cobalt		1.96	mg/L	0.010	98	70	130			
Iron		9.88	mg/L	0.030	99	70	130			
Vanadium		1.87	mg/L	0.10	94	70	130			
Sample ID: H09010168-004C	5	Sample Matrix Spike Duplicate								Run: SUB-B123963 01/26/09 20:08
Beryllium		0.983	mg/L	0.0010	98	70	130	0.8	20	
Chromium		2.09	mg/L	0.010	105	70	130	1.1	20	
Cobalt		1.99	mg/L	0.010	99	70	130	1.4	20	
Iron		9.99	mg/L	0.030	100	70	130	1.1	20	
Vanadium		1.91	mg/L	0.10	95	70	130	1.9	20	
Sample ID: B09011727-001BMS2	5	Sample Matrix Spike								Run: SUB-B123963 01/26/09 20:31
Beryllium		0.50	mg/L	0.0010	100	70	130			
Chromium		1.1	mg/L	0.010	108	70	130			
Cobalt		1.0	mg/L	0.010	102	70	130			
Iron		5.2	mg/L	0.030	103	70	130			
Vanadium		0.96	mg/L	0.10	96	70	130			
Sample ID: B09011727-001BMSD	5	Sample Matrix Spike Duplicate								Run: SUB-B123963 01/26/09 20:35
Beryllium		0.49	mg/L	0.0010	98	70	130	2.5	20	
Chromium		1.1	mg/L	0.010	107	70	130	0.2	20	

Qualifiers:

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ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: B_R123963
Sample ID: B09011727-001BMSD 5 Sample Matrix Spike Duplicate										01/26/09 20:35
Cobalt		1.0	mg/L	0.010	102	70	130	0.1	20	
Iron		5.2	mg/L	0.030	103	70	130	0.4	20	
Vanadium		0.95	mg/L	0.10	95	70	130	1.5	20	
Run: SUB-B123963										
RL - Analyte reporting limit.										
ND - Not detected at the reporting limit.										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 02/09/09

Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-B124140		
Sample ID: QCS - 081021A,08112 13 Initial Calibration Verification Standard								01/29/09 22:55		
Antimony		0.050	mg/L	0.050	101	90	110			
Arsenic		0.051	mg/L	0.0050	101	90	110			
Barium		0.050	mg/L	0.10	100	90	110			
Cadmium		0.025	mg/L	0.0010	100	90	110			
Chromium		0.051	mg/L	0.010	102	90	110			
Copper		0.050	mg/L	0.010	100	90	110			
Lead		0.051	mg/L	0.010	101	90	110			
Mercury		0.0019	mg/L	0.0010	97	90	110			
Nickel		0.051	mg/L	0.010	101	90	110			
Selenium		0.052	mg/L	0.0050	103	90	110			
Silver		0.025	mg/L	0.0050	101	90	110			
Thallium		0.052	mg/L	0.10	104	90	110			
Zinc		0.050	mg/L	0.010	101	90	110			
Method: E200.8								Batch: B_R124140		
Sample ID: LRB 13 Method Blank								Run: SUB-B124140		
								01/29/09 13:19		
Antimony		3E-05	mg/L	1E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Cadmium		2E-05	mg/L	9E-06						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	8E-06						
Mercury		ND	mg/L	1E-05						
Nickel		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0001						
Silver		6E-05	mg/L	3E-05						
Thallium		ND	mg/L	7E-06						
Zinc		0.0007	mg/L	3E-05						
Sample ID: LFB 13 Laboratory Fortified Blank								Run: SUB-B124140		
								01/29/09 13:27		
Antimony		0.048	mg/L	0.050	95	85	115			
Arsenic		0.049	mg/L	0.0050	98	85	115			
Barium		0.048	mg/L	0.10	97	85	115			
Cadmium		0.048	mg/L	0.0010	95	85	115			
Chromium		0.050	mg/L	0.010	100	85	115			
Copper		0.049	mg/L	0.010	98	85	115			
Lead		0.049	mg/L	0.010	99	85	115			
Mercury		0.0010	mg/L	0.0010	102	85	115			
Nickel		0.049	mg/L	0.010	98	85	115			
Selenium		0.049	mg/L	0.0050	98	85	115			
Silver		0.018	mg/L	0.0050	91	85	115			
Thallium		0.049	mg/L	0.10	98	85	115			
Zinc		0.051	mg/L	0.010	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_R124140
Sample ID: LFB	13	Laboratory Fortified Blank			Run: SUB-B124140			01/29/09 13:27		
Sample ID: B09011778-002BMS	13	Sample Matrix Spike			Run: SUB-B124140			01/30/09 07:38		
Antimony		0.0506	mg/L	0.0050	101	70	130			
Arsenic		0.0562	mg/L	0.0050	112	70	130			
Barium		1.01	mg/L	0.10		70	130			A
Cadmium		0.0463	mg/L	0.0010	93	70	130			
Chromium		0.0586	mg/L	0.010	116	70	130			
Copper		0.0457	mg/L	0.010	78	70	130			
Lead		0.0489	mg/L	0.010	98	70	130			
Mercury		0.00102	mg/L	0.0010	102	70	130			
Nickel		0.0502	mg/L	0.010	90	70	130			
Selenium		0.0553	mg/L	0.0050	110	70	130			
Silver		0.0176	mg/L	0.0050	88	70	130			
Thallium		0.0506	mg/L	0.0050	101	70	130			
Zinc		0.0419	mg/L	0.010	84	70	130			
Sample ID: B09011778-002BMSD	13	Sample Matrix Spike Duplicate			Run: SUB-B124140			01/30/09 07:46		
Antimony		0.0509	mg/L	0.0050	102	70	130	0.6	20	
Arsenic		0.0570	mg/L	0.0050	113	70	130	1.5	20	
Barium		1.00	mg/L	0.10		70	130	0.7	20	A
Cadmium		0.0463	mg/L	0.0010	93	70	130	0	20	
Chromium		0.0604	mg/L	0.010	120	70	130	3	20	
Copper		0.0450	mg/L	0.010	76	70	130	1.4	20	
Lead		0.0485	mg/L	0.010	97	70	130	0.6	20	
Mercury		0.00100	mg/L	0.0010	100	70	130	1.6	20	
Nickel		0.0499	mg/L	0.010	89	70	130	0.8	20	
Selenium		0.0565	mg/L	0.0050	113	70	130	2.3	20	
Silver		0.0178	mg/L	0.0050	89	70	130	0.8	20	
Thallium		0.0504	mg/L	0.0050	101	70	130	0.5	20	
Zinc		0.0419	mg/L	0.010	84	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC101-H_090126A		
Sample ID: CCV	2	Continuing Calibration Verification Standard								01/26/09 13:05
Chloride		24	mg/L	1.0	96	90	110			
Sulfate		100	mg/L	1.0	101	90	110			
Sample ID: ICV	2	Initial Calibration Verification Standard								01/26/09 13:25
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		100	mg/L	1.0	100	90	110			
Method: E300.0								Batch: R51598		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC101-H_090126A				01/26/09 13:44
Chloride		92	mg/L	1.0	106	90	110			
Sulfate		27	mg/L	1.0	91	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC101-H_090126A				01/26/09 14:04
Chloride		9.2	mg/L	1.0	92	90	110			
Sulfate		37	mg/L	1.0	91	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC101-H_090126A				01/26/09 14:23
Chloride		ND	mg/L							
Sulfate		0.5	mg/L							
Sample ID: H09010168-001A MS	2	Sample Matrix Spike				Run: IC101-H_090126A				01/26/09 15:21
Chloride		75	mg/L	1.0	105	90	110			
Sulfate		100	mg/L	1.0	101	90	110			
Sample ID: H09010168-001A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_090126A				01/26/09 15:41
Chloride		75	mg/L	1.0	103	90	110	0.6	20	
Sulfate		100	mg/L	1.0	100	90	110	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: NUTRIENTS_090129B		
Sample ID: ICV-1		Initial Calibration Verification Standard								01/29/09 12:12
Nitrogen, Nitrate+Nitrite as N		1.010	mg/L	0.050	101	90	110			
Sample ID: CCV-4		Continuing Calibration Verification Standard								01/29/09 12:18
Nitrogen, Nitrate+Nitrite as N		0.5000	mg/L	0.050	100	90	110			
Sample ID: CCV-25		Continuing Calibration Verification Standard								01/29/09 13:00
Nitrogen, Nitrate+Nitrite as N		0.4700	mg/L	0.050	94	90	110			
Method: E353.2								Batch: A2009-01-29_5_NO3_01		
Sample ID: LCS-2		Laboratory Control Sample					Run: NUTRIENTS_090129B		01/29/09 12:14	
Nitrogen, Nitrate+Nitrite as N		15.60	mg/L	0.095	103	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank					Run: NUTRIENTS_090129B		01/29/09 12:16	
Nitrogen, Nitrate+Nitrite as N		0.5300	mg/L	0.050	106	90	110			
Sample ID: MBLK-7		Method Blank					Run: NUTRIENTS_090129B		01/29/09 12:24	
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010						
Sample ID: H09010167-001AMS		Sample Matrix Spike					Run: NUTRIENTS_090129B		01/29/09 12:42	
Nitrogen, Nitrate+Nitrite as N		1.54	mg/L	0.050	86	90	110			S
Sample ID: H09010167-001AMSD		Sample Matrix Spike Duplicate					Run: NUTRIENTS_090129B		01/29/09 12:44	
Nitrogen, Nitrate+Nitrite as N		1.55	mg/L	0.050	87	90	110	0.6	20	S
Sample ID: H09010168-004BMS		Sample Matrix Spike					Run: NUTRIENTS_090129B		01/29/09 13:06	
Nitrogen, Nitrate+Nitrite as N		0.9100	mg/L	0.050	90	90	110			
Sample ID: H09010168-004BMSD		Sample Matrix Spike Duplicate					Run: NUTRIENTS_090129B		01/29/09 13:08	
Nitrogen, Nitrate+Nitrite as N		0.9300	mg/L	0.050	92	90	110	2.2	20	
Method: E410.4								Batch: R51678		
Sample ID: MB-R51678		Method Blank					Run: SPECTRO_090202A		02/02/09 00:00	
Oxygen Demand, Chemical (COD)		ND	mg/L							
Sample ID: LCS-R51678		Laboratory Control Sample					Run: SPECTRO_090202A		02/02/09 00:00	
Oxygen Demand, Chemical (COD)		310	mg/L	1.0	104	90	110			
Sample ID: H09010168-005BMS		Sample Matrix Spike					Run: SPECTRO_090202A		02/02/09 00:00	
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	101	90	110			
Sample ID: H09010168-005BMSD		Sample Matrix Spike Duplicate					Run: SPECTRO_090202A		02/02/09 00:00	
Oxygen Demand, Chemical (COD)		51	mg/L	1.0	101	90	110	0.6	20	
Sample ID: H09010162-001BDUP		Sample Duplicate					Run: SPECTRO_090202A		02/02/09 00:00	
Oxygen Demand, Chemical (COD)		25	mg/L	1.0				2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod								Analytical Run: SUB-B123915		
Sample ID: ICV-1		Initial Calibration Verification Standard							01/26/09 10:07	
Cyanide, Total		0.154	mg/L	0.0050	102	90	110			
Method: Kelada mod								Batch: B_R123915		
Sample ID: LFB-2		Laboratory Fortified Blank							Run: SUB-B123915	
Cyanide, Total		0.110	mg/L	0.0050	110	90	110		01/26/09 10:08	
Sample ID: MBLK-3		Method Blank							Run: SUB-B123915	
Cyanide, Total		ND	mg/L	0.003					01/26/09 10:11	
Sample ID: B09011682-001EMS		Sample Matrix Spike							Run: SUB-B123915	
Cyanide, Total		0.106	mg/L	0.0050	106	90	110		01/26/09 10:14	
Sample ID: B09011682-001EMSD		Sample Matrix Spike Duplicate							Run: SUB-B123915	
Cyanide, Total		0.104	mg/L	0.0050	104	90	110		01/26/09 10:16	
Sample ID: B09011780-001CMS		Sample Matrix Spike							Run: SUB-B123915	
Cyanide, Total		0.111	mg/L	0.0050	111	90	110		01/26/09 12:12	
									S	
Sample ID: B09011780-001CMSD		Sample Matrix Spike Duplicate							Run: SUB-B123915	
Cyanide, Total		0.115	mg/L	0.0050	115	90	110		01/26/09 12:14	
									S	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090128A								
Sample ID: CCV012809A		54 Continuing Calibration Verification Standard								01/28/09 10:52
Acetone		48.8	ug/L	20	98	70	130			
Acrylonitrile		53.6	ug/L	20	107	70	130			
Benzene		4.96	ug/L	1.0	99	70	130			
Bromochloromethane		5.32	ug/L	1.0	106	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		4.88	ug/L	1.0	98	70	130			
Bromomethane		4.60	ug/L	1.0	92	70	130			
Carbon disulfide		5.00	ug/L	1.0	100	70	130			
Carbon tetrachloride		5.20	ug/L	1.0	104	70	130			
Chlorobenzene		5.16	ug/L	1.0	103	70	130			
Chlorodibromomethane		4.92	ug/L	1.0	98	70	130			
Chloroethane		4.72	ug/L	1.0	94	70	130			
Chloroform		5.20	ug/L	1.0	104	80	120			
Chloromethane		5.04	ug/L	1.0	101	70	130			
1,2-Dibromo-3-chloropropane		5.24	ug/L	1.0	105	70	130			
1,2-Dibromoethane		4.92	ug/L	1.0	98	70	130			
Dibromomethane		4.88	ug/L	1.0	98	70	130			
1,2-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
trans-1,4-Dichloro-2-butene		5.04	ug/L	1.0	101	70	130			
Dichlorodifluoromethane		4.96	ug/L	1.0	99	70	130			
1,1-Dichloroethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichloroethane		5.44	ug/L	1.0	109	70	130			
1,1-Dichloroethene		4.88	ug/L	1.0	98	80	120			
cis-1,2-Dichloroethene		5.20	ug/L	1.0	104	70	130			
trans-1,2-Dichloroethene		4.96	ug/L	1.0	99	70	130			
1,2-Dichloropropane		4.76	ug/L	1.0	95	80	120			
cis-1,3-Dichloropropene		4.88	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		5.04	ug/L	1.0	101	70	130			
Ethylbenzene		5.00	ug/L	1.0	100	80	120			
2-Hexanone		50.0	ug/L	20	100	70	130			
Iodomethane		4.84	ug/L	1.0	97	70	130			
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		48.8	ug/L	20	98	70	130			
Methylene chloride		4.92	ug/L	1.0	98	70	130			
Styrene		5.20	ug/L	1.0	104	70	130			
1,1,1,2-Tetrachloroethane		4.80	ug/L	1.0	96	70	130			
1,1,2,2-Tetrachloroethane		4.64	ug/L	1.0	93	70	130			
Tetrachloroethene		5.28	ug/L	1.0	106	70	130			
Toluene		4.96	ug/L	1.0	99	80	120			
1,1,1-Trichloroethane		5.20	ug/L	1.0	104	70	130			
1,1,2-Trichloroethane		5.20	ug/L	1.0	104	70	130			
Trichloroethene		4.76	ug/L	1.0	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW8260B		Analytical Run: 1SATURN_090128A									
Sample ID: CCV012809A	54	Continuing Calibration Verification Standard								01/28/09 10:52	
Trichlorofluoromethane		5.08	ug/L	1.0	102	70	130				
1,2,3-Trichloropropane		4.64	ug/L	1.0	93	70	130				
Vinyl acetate		5.48	ug/L	1.0	110	70	130				
Vinyl chloride		4.56	ug/L	1.0	91	80	120				
m+p-Xylenes		10.2	ug/L	1.0	102	70	130				
o-Xylene		5.20	ug/L	1.0	104	70	130				
Xylenes, Total		15.4	ug/L	1.0	103	70	130				
Surr: 1,2-Dichloroethane-d4				1.0	104	70	130				
Surr: Dibromofluoromethane				1.0	103	70	130				
Surr: p-Bromofluorobenzene				1.0	100	70	130				
Surr: Toluene-d8				1.0	104	70	130				
Method: SW8260B		Batch: R51632									
Sample ID: LCS012809A	54	Laboratory Control Sample								Run: 1SATURN_090128A	01/28/09 11:36
Acetone		36.5	ug/L	20	73	70	130				
Acrylonitrile		45.2	ug/L	20	90	70	130				
Benzene		4.40	ug/L	1.0	88	70	130				
Bromochloromethane		5.04	ug/L	1.0	101	70	130				
Bromodichloromethane		4.52	ug/L	1.0	90	70	130				
Bromoform		4.48	ug/L	1.0	90	70	130				
Bromomethane		4.24	ug/L	1.0	85	70	130				
Carbon disulfide		5.00	ug/L	1.0	100	70	130				
Carbon tetrachloride		4.92	ug/L	1.0	98	70	130				
Chlorobenzene		5.04	ug/L	1.0	101	70	130				
Chlorodibromomethane		4.56	ug/L	1.0	91	70	130				
Chloroethane		4.56	ug/L	1.0	91	70	130				
Chloroform		4.72	ug/L	1.0	94	70	130				
Chloromethane		5.00	ug/L	1.0	100	70	130				
1,2-Dibromo-3-chloropropane		4.60	ug/L	1.0	92	70	130				
1,2-Dibromoethane		4.44	ug/L	1.0	89	70	130				
Dibromomethane		4.32	ug/L	1.0	86	70	130				
1,2-Dichlorobenzene		4.84	ug/L	1.0	97	70	130				
1,4-Dichlorobenzene		5.12	ug/L	1.0	102	70	130				
trans-1,4-Dichloro-2-butene		5.08	ug/L	1.0	102	70	130				
Dichlorodifluoromethane		5.12	ug/L	1.0	102	70	130				
1,1-Dichloroethane		4.88	ug/L	1.0	98	70	130				
1,2-Dichloroethane		4.96	ug/L	1.0	99	70	130				
1,1-Dichloroethene		5.12	ug/L	1.0	102	70	130				
cis-1,2-Dichloroethene		4.96	ug/L	1.0	99	70	130				
trans-1,2-Dichloroethene		5.04	ug/L	1.0	101	70	130				
1,2-Dichloropropane		4.60	ug/L	1.0	92	70	130				
cis-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130				
trans-1,3-Dichloropropene		4.40	ug/L	1.0	88	70	130				
Ethylbenzene		4.80	ug/L	1.0	96	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Batch: R51632										
Sample ID: LCS012809A	54	Laboratory Control Sample			Run: 1SATURN_090128A			01/28/09 11:36		
2-Hexanone		48.4	ug/L	20	97	70	130			
Iodomethane		4.76	ug/L	1.0	95	70	130			
Methyl ethyl ketone		47.6	ug/L	20	95	70	130			
Methyl isobutyl ketone		44.0	ug/L	20	88	70	130			
Methylene chloride		4.56	ug/L	1.0	91	70	130			
Styrene		5.20	ug/L	1.0	104	70	130			
1,1,1,2-Tetrachloroethane		4.84	ug/L	1.0	97	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		5.16	ug/L	1.0	103	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		5.04	ug/L	1.0	101	70	130			
1,1,2-Trichloroethane		4.72	ug/L	1.0	94	70	130			
Trichloroethene		4.88	ug/L	1.0	98	70	130			
Trichlorofluoromethane		5.24	ug/L	1.0	105	70	130			
1,2,3-Trichloropropane		5.00	ug/L	1.0	100	70	130			
Vinyl acetate		4.40	ug/L	1.0	88	70	130			
Vinyl chloride		4.60	ug/L	1.0	92	70	130			
m+p-Xylenes		10.4	ug/L	1.0	104	70	130			
o-Xylene		5.04	ug/L	1.0	101	70	130			
Xylenes, Total		15.4	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	95	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: MB012809A										
54 Method Blank										
Run: 1SATURN_090128A										
01/28/09 12:51										
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R51632
Sample ID: MB012809A	54	Method Blank		Run: 1SATURN_090128A				01/28/09 12:51		
1,4-Dichlorobenzene		ND	ug/L	1.0						
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	95	70	130			
Surr: Dibromofluoromethane				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	94	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: H09010159-002AMS	54	Sample Matrix Spike		Run: 1SATURN_090128A				01/28/09 18:21		
Acetone		78.8	ug/L	40	79	70	130			
Acrylonitrile		91.2	ug/L	40	91	70	130			
Benzene		9.04	ug/L	2.0	90	70	130			
Bromochloromethane		10.7	ug/L	2.0	107	70	130			
Bromodichloromethane		10.2	ug/L	2.0	102	70	130			
Bromoform		10.1	ug/L	2.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R51632
Sample ID: H09010159-002AMS	54	Sample Matrix Spike			Run: 1SATURN_090128A			01/28/09 18:21		
Bromomethane		10.2	ug/L	2.0	102	70	130			
Carbon disulfide		9.92	ug/L	2.0	99	70	130			
Carbon tetrachloride		10.4	ug/L	2.0	104	70	130			
Chlorobenzene		11.1	ug/L	2.0	111	70	130			
Chlorodibromomethane		10.3	ug/L	2.0	103	70	130			
Chloroethane		8.72	ug/L	2.0	87	70	130			
Chloroform		9.92	ug/L	2.0	99	70	130			
Chloromethane		9.04	ug/L	2.0	90	70	130			
1,2-Dibromo-3-chloropropane		10.4	ug/L	2.0	104	70	130			
1,2-Dibromoethane		10.5	ug/L	2.0	105	70	130			
Dibromomethane		9.92	ug/L	2.0	99	70	130			
1,2-Dichlorobenzene		10.3	ug/L	2.0	103	70	130			
1,4-Dichlorobenzene		11.0	ug/L	2.0	110	70	130			
trans-1,4-Dichloro-2-butene		10.9	ug/L	2.0	109	70	130			
Dichlorodifluoromethane		8.88	ug/L	2.0	89	70	130			
1,1-Dichloroethane		15.6	ug/L	2.0	97	70	130			
1,2-Dichloroethane		10.2	ug/L	2.0	102	70	130			
1,1-Dichloroethene		10.9	ug/L	2.0	106	70	130			
cis-1,2-Dichloroethene		10.4	ug/L	2.0	104	70	130			
trans-1,2-Dichloroethene		10.9	ug/L	2.0	109	70	130			
1,2-Dichloropropane		10.6	ug/L	2.0	106	70	130			
cis-1,3-Dichloropropene		10.1	ug/L	2.0	101	70	130			
trans-1,3-Dichloropropene		9.76	ug/L	2.0	98	70	130			
Ethylbenzene		10.6	ug/L	2.0	106	70	130			
2-Hexanone		102	ug/L	40	102	70	130			
Iodomethane		9.44	ug/L	2.0	94	70	130			
Methyl ethyl ketone		109	ug/L	40	109	70	130			
Methyl isobutyl ketone		103	ug/L	40	103	70	130			
Methylene chloride		9.44	ug/L	2.0	94	70	130			
Styrene		11.6	ug/L	2.0	116	70	130			
1,1,1,2-Tetrachloroethane		11.3	ug/L	2.0	113	70	130			
1,1,2,2-Tetrachloroethane		9.52	ug/L	2.0	95	70	130			
Tetrachloroethene		11.0	ug/L	2.0	110	70	130			
Toluene		10.7	ug/L	2.0	107	70	130			
1,1,1-Trichloroethane		10.5	ug/L	2.0	105	70	130			
1,1,2-Trichloroethane		11.3	ug/L	2.0	113	70	130			
Trichloroethene		10.9	ug/L	2.0	109	70	130			
Trichlorofluoromethane		9.52	ug/L	2.0	95	70	130			
1,2,3-Trichloropropane		10.2	ug/L	2.0	102	70	130			
Vinyl acetate		10.9	ug/L	2.0	109	70	130			
Vinyl chloride		8.72	ug/L	2.0	87	70	130			
m+p-Xylenes		22.6	ug/L	2.0	113	70	130			
o-Xylene		11.5	ug/L	2.0	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R51632
Sample ID: H09010159-002AMS	54	Sample Matrix Spike		Run: 1SATURN_090128A				01/28/09 18:21		
Xylenes, Total		34.2	ug/L	2.0	114	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	100	70	130			
Surr: Dibromofluoromethane				2.0	92	70	130			
Surr: p-Bromofluorobenzene				2.0	93	70	130			
Surr: Toluene-d8				2.0	103	70	130			
Sample ID: H09010159-002AMSD	54	Sample Matrix Spike Duplicate		Run: 1SATURN_090128A				01/28/09 18:50		
Acetone		91.2	ug/L	40	91	70	130	15	20	
Acrylonitrile		102	ug/L	40	102	70	130	11	20	
Benzene		11.0	ug/L	2.0	110	70	130	20	20	
Bromochloromethane		11.3	ug/L	2.0	113	70	130	5.1	20	
Bromodichloromethane		9.52	ug/L	2.0	95	70	130	6.5	20	
Bromoform		8.96	ug/L	2.0	90	70	130	12	20	
Bromomethane		11.2	ug/L	2.0	112	70	130	9.7	20	
Carbon disulfide		11.0	ug/L	2.0	110	70	130	10	20	
Carbon tetrachloride		11.0	ug/L	2.0	110	70	130	6	20	
Chlorobenzene		10.1	ug/L	2.0	101	70	130	9.8	20	
Chlorodibromomethane		9.36	ug/L	2.0	94	70	130	9.8	20	
Chloroethane		10.1	ug/L	2.0	101	70	130	14	20	
Chloroform		10.6	ug/L	2.0	106	70	130	7	20	
Chloromethane		9.84	ug/L	2.0	98	70	130	8.5	20	
1,2-Dibromo-3-chloropropane		9.68	ug/L	2.0	97	70	130	7.2	20	
1,2-Dibromoethane		9.68	ug/L	2.0	97	70	130	7.9	20	
Dibromomethane		9.28	ug/L	2.0	93	70	130	6.7	20	
1,2-Dichlorobenzene		10.9	ug/L	2.0	109	70	130	5.3	20	
1,4-Dichlorobenzene		11.0	ug/L	2.0	110	70	130	0	20	
trans-1,4-Dichloro-2-butene		11.0	ug/L	2.0	110	70	130	0.7	20	
Dichlorodifluoromethane		10.2	ug/L	2.0	102	70	130	13	20	
1,1-Dichloroethane		15.9	ug/L	2.0	100	70	130	2	20	
1,2-Dichloroethane		11.0	ug/L	2.0	110	70	130	7.5	20	
1,1-Dichloroethene		11.2	ug/L	2.0	109	70	130	2.9	20	
cis-1,2-Dichloroethene		10.8	ug/L	2.0	108	70	130	3.8	20	
trans-1,2-Dichloroethene		10.7	ug/L	2.0	107	70	130	1.5	20	
1,2-Dichloropropane		9.60	ug/L	2.0	96	70	130	10	20	
cis-1,3-Dichloropropene		9.52	ug/L	2.0	95	70	130	5.7	20	
trans-1,3-Dichloropropene		9.52	ug/L	2.0	95	70	130	2.5	20	
Ethylbenzene		10.0	ug/L	2.0	100	70	130	5.4	20	
2-Hexanone		92.8	ug/L	40	93	70	130	9.1	20	
Iodomethane		10.3	ug/L	2.0	103	70	130	8.9	20	
Methyl ethyl ketone		106	ug/L	40	106	70	130	2.2	20	
Methyl isobutyl ketone		96.0	ug/L	40	96	70	130	7.2	20	
Methylene chloride		10.3	ug/L	2.0	103	70	130	8.9	20	
Styrene		10.1	ug/L	2.0	101	70	130	14	20	
1,1,1,2-Tetrachloroethane		10.8	ug/L	2.0	108	70	130	4.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 02/09/09

Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R51632
Sample ID: H09010159-002AMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_090128A 01/28/09 18:50
1,1,2,2-Tetrachloroethane		9.36	ug/L	2.0	94	70	130	1.7		20
Tetrachloroethane		10.3	ug/L	2.0	103	70	130	6.7		20
Toluene		10.2	ug/L	2.0	102	70	130	4.6		20
1,1,1-Trichloroethane		11.2	ug/L	2.0	112	70	130	6.6		20
1,1,2-Trichloroethane		9.60	ug/L	2.0	96	70	130	16		20
Trichloroethane		10.2	ug/L	2.0	102	70	130	6.1		20
Trichlorofluoromethane		10.4	ug/L	2.0	104	70	130	8.8		20
1,2,3-Trichloropropane		10.7	ug/L	2.0	107	70	130	5.4		20
Vinyl acetate		11.6	ug/L	2.0	116	70	130	6.4		20
Vinyl chloride		9.60	ug/L	2.0	96	70	130	9.6		20
m+p-Xylenes		21.2	ug/L	2.0	106	70	130	6.6		20
o-Xylene		11.0	ug/L	2.0	110	70	130	5		20
Xylenes, Total		32.2	ug/L	2.0	107	70	130	6		20
Surr: 1,2-Dichloroethane-d4				2.0	106	70	130	0		20
Surr: Dibromofluoromethane				2.0	105	70	130	0		20
Surr: p-Bromofluorobenzene				2.0	97	70	130	0		20
Surr: Toluene-d8				2.0	98	70	130	0		20
Method: SW8260B										Analytical Run: 1SATURN_090129A
Sample ID: CCV012909A 5 Continuing Calibration Verification Standard										01/29/09 11:20
Chloroform		5.20	ug/L	1.0	104	80	120			
Surr: 1,2-Dichloroethane-d4				1.0	94	70	130			
Surr: Dibromofluoromethane				1.0	84	70	130			
Surr: p-Bromofluorobenzene				1.0	87	70	130			
Surr: Toluene-d8				1.0	95	70	130			
Method: SW8260B										Batch: R51636
Sample ID: LCS012909A 5 Laboratory Control Sample										Run: 1SATURN_090129A 01/29/09 12:01
Chloroform		5.56	ug/L	1.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	97	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	93	70	130			
Surr: Toluene-d8				1.0	99	70	130			
Sample ID: MB012909A 5 Method Blank										Run: 1SATURN_090129A 01/29/09 13:19
Chloroform		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	97	70	130			
Surr: Dibromofluoromethane				1.0	87	70	130			
Surr: p-Bromofluorobenzene				1.0	80	70	130			
Surr: Toluene-d8				1.0	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-004
Client Sample ID: MrM-MW-EB

Report Date: 02/09/09
Collection Date: 01/22/09 10:40
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	5.8	s.u.		0.1		A4500-H B	01/23/09 14:38 / hm
Conductivity	17	umhos/cm		1		A2510 B	01/23/09 14:54 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:56 / eli-b1
Chloride	ND	mg/L		1		E300.0	01/26/09 16:39 / hm
Sulfate	ND	mg/L		1		E300.0	01/26/09 16:39 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 13:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:41 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:41 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 20:00 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:41 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 20:00 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 20:00 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 20:00 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:41 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:41 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 20:00 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromodichloromethane	0.89	ug/L	J	1.0		SW8260B	01/28/09 15:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-004
Client Sample ID: MrM-MW-EB

Report Date: 02/09/09
Collection Date: 01/22/09 10:40
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chloroform	22	ug/L		5.0		SW8260B	01/29/09 13:48 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Surr: 1,2-Dichloroethane-d4	103	%REC		70-130		SW8260B	01/28/09 15:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

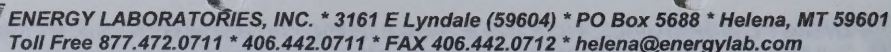
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-006
Client Sample ID: Trip Blank TB111308(mc)(b)shp0237

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

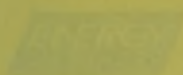


LABORATORY ANALYTICAL REPORT

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
DateReceived: 01/22/09
Matrix: Trip Blank

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

February 22, 2006

Monte Verde

MT 0002

PO Box 210000

Helena, MT 59602-0001

Watermark No. 100010100

Project Name: Monte Verde

Energy Laboratories has analyzed the following 8 samples for MT 0002 on 1/25/2006 for analysis:

Sample ID	Client Sample ID	Collect Date	Analysis Date	Notes	Test
HE0010100-001	1000-1000-1001	01/21/06 10:10	01/22/06	Agenda	Mercury (CF/CFMS, Desolved) Oxygen, Total Manual Diffusion Total Oxygen Digestion Chemical Oxygen Demand Conductivity Ammonia by Ion Chromatography pH 5000-Volatile Organic Comp., 40 CFH Test 250 App I
HE0010100-002	1000-1000-1002	01/21/06 10:15	01/22/06	Agenda	Same As Above
HE0010100-003	1000-1000-1003	01/22/06 9:30	01/22/06	Agenda	Mercury (CF/CFMS, Desolved) Oxygen, Total Manual Diffusion Conductivity Ammonia by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 5000-Volatile Organic Comp., 40 CFH Test 250 App I
HE0010100-004	1000-1000-1004	01/22/06 10:40	01/22/06	Agenda	Mercury (CF/CFMS, Desolved) Oxygen, Total Manual Diffusion Total Oxygen Digestion Chemical Oxygen Demand Conductivity Ammonia by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 5000-Volatile Organic Comp., 40 CFH Test 250 App I
HE0010100-005	1000-1000-1005	01/21/06 10:10	01/22/06	Agenda	Same As Above
HE0010100-006	Top Blank	01/21/06 10:15	01/22/06	Top Blank	5000-Volatile Organic Comp., 40 CFH Test 250 App I

BRANCH LABORATORY LOCATIONS

- HE0 - Energy Laboratories, Inc. - Helena, MT. 201 W 10th St.
- MT0 - Energy Laboratories, Inc. - Great Falls, MT. 201 W 10th St.
- MT0 - Energy Laboratories, Inc. - Helena, MT. 201 W 10th St.
- MT0 - Energy Laboratories, Inc. - Helena, MT. 201 W 10th St.
- MT0 - Energy Laboratories, Inc. - Helena, MT. 201 W 10th St.
- MT0 - Energy Laboratories, Inc. - Helena, MT. 201 W 10th St.

SELECTED ANALYSIS

Subcontracting of sample analysis to our service laboratory may be required. If so, ENERGY LABORATORIES, INC. will advise you through our website or e-mail of our up-to-date information for our services. Any such information will be posted under "Our Laboratory Services Page".





ANALYTICAL SUMMARY REPORT

February 09, 2009

Martin VanOort

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09010168

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 6 samples for MT DEQ on 1/22/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09010168-001	MrM-MW-OW1	01/21/09 16:48	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-002	MrM-MW-10	01/22/09 9:15	01/22/09	Aqueous	Same As Above
H09010168-003	MrM-MW-1	01/22/09 9:36	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-004	MrM-MW-EB	01/22/09 10:40	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-005	MrM-MW-HW	01/21/09 13:15	01/22/09	Aqueous	Same As Above
H09010168-006	Trip Blank TB111308(mc)(b)shp0237	01/21/09 13:15	01/22/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.



ANALYTICAL SUMMARY REPORT

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	01/23/09 14:29 / hm
Conductivity	678	umhos/cm		1		A2510 B	01/23/09 14:49 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:53 / eli-b1
Chloride	49	mg/L		1		E300.0	01/26/09 15:02 / hm
Sulfate	ND	mg/L		1		E300.0	01/26/09 15:02 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	11	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 12:46 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:18 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:18 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:45 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:18 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:45 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:45 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Iron	2.87	mg/L		0.03		E200.7	01/26/09 19:45 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:18 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:18 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:45 / eli-b
Zinc	0.29	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Benzene	1.1	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

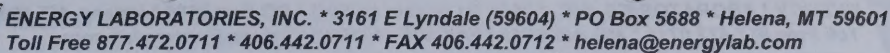
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
cis-1,2-Dichloroethene	33	ug/L		10		SW8260B	01/28/09 15:52 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Ethylbenzene	3.9	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Styrene	2.6	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Trichloroethene	0.26	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Vinyl chloride	0.73	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
m+p-Xylenes	0.61	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Xylenes, Total	0.61	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
Surr: 1,2-Dichloroethane-d4	96.0	%REC		70-130		SW8260B	01/28/09 16:22 / abb

Report: RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
DateReceived: 01/22/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-002
Client Sample ID: MrM-MW-10

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	01/23/09 14:31 / hm
Conductivity	1080	umhos/cm		1		A2510 B	01/23/09 14:51 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:54 / eli-b1
Chloride	17	mg/L		1		E300.0	01/26/09 16:00 / hm
Sulfate	89	mg/L		1		E300.0	01/26/09 16:00 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	4	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.63	mg/L		0.05		E353.2	01/29/09 12:48 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:25 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:25 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:53 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:25 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:53 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:53 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 19:53 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:25 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Selenium	0.060	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:25 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:53 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

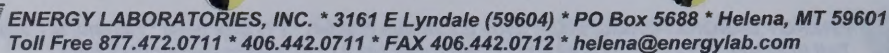
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-002
Client Sample ID: MrM-MW-10

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Surr: 1,2-Dichloroethane-d4	109	%REC		70-130		SW8260B	01/28/09 14:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Report Date: 02/09/09
Collection Date: 01/22/09 09:15
DateReceived: 01/22/09
Matrix: Aqueous

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
DateReceived: 01/22/09
Matrix: Aqueous

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-003
Client Sample ID: MrM-MW-1

Report Date: 02/09/09
Collection Date: 01/22/09 09:36
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	01/23/09 14:32 / hm
Conductivity	805	umhos/cm		1		A2510 B	01/23/09 14:52 / hm
INORGANICS							
Chloride	19	mg/L		1		E300.0	01/26/09 16:20 / hm
Sulfate	23	mg/L		1		E300.0	01/26/09 16:20 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	5	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.90	mg/L		0.05		E353.2	01/29/09 13:02 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:33 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Barium	0.2	mg/L		0.1		E200.8	01/30/09 04:33 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:57 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:33 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:57 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:57 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 19:57 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:33 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:33 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:57 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

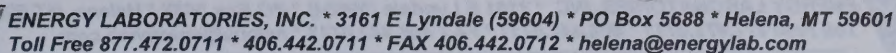
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-003
Client Sample ID: MrM-MW-1

Report Date: 02/09/09
Collection Date: 01/22/09 09:36
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Surr: 1,2-Dichloroethane-d4	103	%REC		70-130		SW8260B	01/28/09 14:50 / abb
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	01/28/09 14:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Report Date: 02/09/09
Collection Date: 01/22/09 09:36
DateReceived: 01/22/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-005
Client Sample ID: MrM-MW-HW

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	01/23/09 14:43 / hm
Conductivity	837	umhos/cm		1		A2510 B	01/23/09 14:55 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:58 / eli-b1
Chloride	8	mg/L		1		E300.0	01/26/09 16:58 / hm
Sulfate	34	mg/L		1		E300.0	01/26/09 16:58 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 13:10 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 05:19 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 05:19 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 20:19 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 05:19 / eli-b
Chromium	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 20:19 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 20:19 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 05:19 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 05:19 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 20:19 / eli-b
Zinc	0.03	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

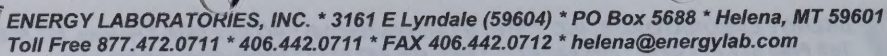
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-005
Client Sample ID: MrM-MW-HW

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	01/28/09 13:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
DateReceived: 01/22/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

APPENDIX E: HISTORICAL GROUNDWATER QUALITY

		General Chemistry (mg/l)							Metals (mg/l)																
Well	Date	pH (std units)	SC (umhos/cm)	Chloride	Sulfate	COD	Nitrate + Nitrite	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-1	8/10/93	7.5	544	16	75	27	0.77			<0.005	0.1		<0.001	<0.01			<0.03	<0.01	<0.001		<0.005	<0.005			
	12/8/95																								
	3/30/96	7.2	789	19	34	1	0.53	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	0.08	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.02
	11/21/03	7.6	684	13	28			<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.3	716	9	30	8	1.62	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	11/10/06	7.6	775	13	25	6	2.42	<0.005	<0.01	<0.005	0.29	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
	6/28/07	7.5	7.81	19	24	10	1.49	<0.005	<0.01	<0.005	0.24	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
	1/22/09	7.5	805	19	23	5	1.90		<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
MW-2	8/10/93	6.9	823	47	52	57	<0.05			<0.005	0.2		<0.001	<0.01			<0.03	<0.01	<0.001		<0.005	<0.005			
	6/28/07	7.3	946	54	60	13	0.21	<0.005	<0.01	<0.005	0.14	<0.001	<0.0005	<0.002	<0.005	0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-4	8/10/93	7.8	721	28	51	40	0.43			<0.005	0.2		0.003	<0.01			<0.01	0.03	<0.001		<0.005	<0.005			
	11/21/03	7.8	670	16	59	22	2.81	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
MW-5	11/21/03	7.7	718	5	68	38	2.72	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.054	<0.005	<0.1	<0.1	<0.01
	8/19/04	7.9	926	10	100	2	2.81	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.055	<0.005	<0.1	<0.1	0.02
	11/30/05	7.4	841	11	46	100	1.96	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.058	<0.005	<0.1	<0.1	<0.01
	11/9/06	7.6	969	5	43	4	2.66	<0.005	<0.01	<0.005	0.11	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.184	<0.0002	<0.01	<0.05	<0.01
	6/27/07	7.7	937	7	50	22	1.89	<0.005	<0.01	<0.005	0.11	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.124	<0.0002	<0.01	<0.05	<0.01
	12/19/07	7.6	880	9	49	4	1.70																		
MW-6	6/27/07	7.6	1040	5	56	6	0.18	<0.005	<0.01	<0.005	0.15	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-6M	8/20/04	7.9	388	4	20	2	1.68	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.06
MW-7	12/8/95																								
	3/30/96	6.8	942	34	40	<1	<0.05	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	0.28	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.10	0.02
MW-7R	6/28/07	7.3	1350	80	157	14	2.10	<0.005	<0.01	<0.005	0.05	<0.001	<0.0005	<0.002	<0.005	0.002	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01
MW-8	11/21/03	7.3	743	17	38	120	1.03	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.4	746	10	50	8	2.64	<0.005	<0.05	<0.005	0.2	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.08
MW-9	12/8/95																								
	3/30/96	7.4	734	13	26	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	0.001	<0.01	<0.01	<0.01	0.05	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.03
MW-9R	10/24/97	7.7	814	14	99	6	4.74	<0.005	<0.05	<0.005	<0.1	<0.001	0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
	8/20/04	7.6	760	10	90	<1	5.58	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
MW-10	11/14/94	7.5	684	47	30	6	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.02
	12/29/94																								
	5/25/95	8.0	668	45	25	11	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.05	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.06
	12/8/95	7.4	646	15	30	10	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.08
	3/30/96	7.4	647	6	25	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.2	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.03
MW-10R	10/24/97	7.6	1100	23	111	10	2.01	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.04	<0.01	<0.001	<0.01	0.034	<0.005	<0.1	<0.1	<0.01
	6/29/98	7.5	1130	18	99	7	1.7	<0.005	0.04J	0.004J	<0.1	0.0009J	<0.001	<0.01	<0.01	<0.01	0.14	<0.01	<0.001	<0.01	0.091	<0.005	<0.1	<0.1	0.02
	11/17/98	7.5	947	19	113	12	2.18	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.093	<0.005	<0.1	<0.1	<0.01J
	5/4/99	7.7	1070	19	104	<1	1.85	<0.005	<0.05	0.008	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.35	<0.01	<0.001	<0.01	0.101	<0.005	<0.1	<0.1	0.02
	12/3/99	7.3	1070	14	112	8	2.01	<0.005	<0.05	<0.005J	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.07	<0.01	<0.001	<0.01	0.114	<0.005	<0.1	<0.1	<0.01
	8/20/04	7.7	970	10	100	2	2.39	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.050	<0.005	<0.1	<0.1	0.07
		1/22/09	7.8	1080	17	89	4	1.63	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	0.060	<0.005	<0.1	<0.1

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

		General Chemistry (mg/l)							Metals (mg/l)																
Well	Date	pH (std units)	SC (umhos/cm)	Chloride	Sulfate	COD	Nitrate + Nitrite	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-11M	8/20/04	7.3	1110	20	70	<1	2.36	<0.005	<0.05	<0.005	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.08
MW-13	10/24/97	7.9	441	<1	80	<1	0.15	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
MW-OW	11/14/94	7.3	771	29	29	5	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.57	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.15
	12/29/94																								
	5/25/95	7.8	721	4	33	3	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.58	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.08
	12/8/95	7.3	718	4	37	6	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.10	0.09
	3/30/96	7.4	732	5	29	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	1.01	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.13
	10/24/97	7.6	691	6	37	3	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.57	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.05
	6/29/98	7.3	714	9	34	4	<0.05	<0.005	<0.05	<0.005	0.07J	<0.001	<0.001	<0.01	<0.01	<0.01	1.01	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.12
	11/17/98	7.5	757	119	15	20	<0.05	<0.005	<0.05	<0.005J	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	2.00	<0.01	<0.001	0.03	<0.005	<0.005	<0.1	<0.1	0.30
	5/4/99	7.7	687	7	34	<1	<0.05	<0.005	<0.05	<0.005	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.68	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.06
	12/2/99	7.4	675	4	36	4	<0.05	<0.005	<0.05	<0.005	<0.1J	<0.001	<0.001	<0.01	<0.01	<0.01	0.73	<0.01	<0.001	0.01	<0.005	<0.005	<0.1	<0.1	0.03
	8/20/04	7.5	794	10	90	30	<0.05	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.68
	8/20/04	7.5	802	10	100	28	<0.05	<0.005	<0.05	<0.005	0.2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.64
	11/10/06	7.7	718	22	27	4	<0.02	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	0.31	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	0.36
	6/28/07	7.7	692	10	36	2	<0.01	<0.005	<0.01	<0.005	0.07	<0.001	<0.0005	<0.002	<0.005	<0.001	0.41	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	0.16
	12/18/07	7.5	669	47	2	9	<0.01	<0.005	<0.01	<0.005	0.09	<0.001	<0.0005	<0.002	<0.005	<0.001	3.79	<0.002	<0.0002	0.01	<0.005	<0.0002	<0.01	<0.05	3.17
	1/21/09	7.8	678	49	<1	11	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	2.87	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.29
MW-HW	6/10/80	7.6	848	2.5	107								< 0.002	0.007		0.013	0.75	< 0.04		0.01		0.006		0.007	0.04
	11/14/94	7.1	815	3	100	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.14	<0.01	<0.001	<0.1	<0.005	<0.005	<0.1	<0.10	0.04
	5/25/95	7.8	780	8	38	2	0.12	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.1	<0.005	<0.005	<0.1	<0.10	0.02
	12/8/95	7.2	786	4	75	9	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.05
	3/30/96	7.4	796	8	29	<1	0.44	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.10	0.04
	10/24/97	7.4	779	4	83	2	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	6/29/98	7.3	723	7	55	4	<0.05	<0.005	<0.05	<0.005	0.06J	<0.001	<0.001	<0.01	<0.01	<0.01	0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.05
	11/17/98	7.2	668	4	87	2	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.52	<0.01	<0.001	<0.01J	<0.005	<0.005	<0.1	<0.1	0.04
	5/4/99	7.6	755	4	87	<1	0.15	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.25	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.04
	12/2/99	7.2	763	4	105	4	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	0.34	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03
	8/20/04	7.6	705	10	40	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03
	11/29/05	7.4	676	5	78	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.02
	11/29/05	7.4	700	6	77	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.01
	11/10/06	7.5	753	9	35	<1	<0.05	<0.005	<0.01	<0.005	0.06	<0.001	<0.0005	<0.002	<0.005	0.001	0.28	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	0.03
	6/28/07	7.7	756	10	36	1	0.17	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	0.010	<0.0002	<0.01	<0.05	<0.01
	12/18/07	7.4	756	9	36	<1	0.01	<0.005	<0.01	<0.005	0.08	<0.001	<0.0005	<0.002	<0.005	<0.001	<0.03	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	0.02
1/21/09	7.5	837	8	34	<1	<0.05	<0.005	<0.05	<0.005	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.03	<0.01	<0.001	<0.01	<0.005	<0.005	<0.1	<0.1	0.03	
Richards	6/28/07	7.9	645	5	47	<1	<0.01	<0.005	<0.01	<0.005	0.07	<0.001	<0.0005	<0.002	<0.005	<0.001	0.14	<0.002	<0.0002	<0.01	<0.005	<0.0002	<0.01	<0.05	<0.01

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Well	Date	VOCs (ug/l)																	
		1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl benzene	2-Hexanone	Iodomethane	Methyl ethyl ketone	Methyl isobutyl ketone	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane
MW-1	8/10/93		<1.0	<1.0	<1.0		<1.0			<1.0	<1.0		<1.0	<1.0	1.2	<1.0J	<1.0	<1.0	<1.0
	12/8/95	<5.00	<5.00	<5.00	<5.00	<25.0		<25.0	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/21/03	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.29J	<1.0	<1.0	<1.0	<1.0
	11/10/06	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	0.29J	<1.0	<1.0	<1.0	<1.0
	6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2	1/22/09	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8/10/93		<1.0	<1.0	<1.0		<1.0			<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4	6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	0.55J	<1.0	<1.0	<1.0	<1.0	<1.0
	8/10/93		<1.0	<1.0	<1.0		<1.0			<1.0	<1.0		<1.0	<1.0J	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	11/21/03	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	0.66J	<1.0	<1.0	<1.0	0.26J	<1.0
	11/21/03	<1.0	<1.0	<1.0	0.96J	<20	<1.0	<20	<20	<1.0	0.90J	<1.0	<1.0	<1.0	5	<1.0	<1.0	<1.0	<1.0
	8/19/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	<1.0
	11/30/05	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.22J	<1.0	<1.0	<1.0	<1.0
	11/9/06	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	0.16J	<1.0	<1.0	<1.0	<1.0
	6/27/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.40J	<1.0	<1.0	<1.0	<1.0
	12/19/07	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.20J	<1.0	<1.0	<1.0	<1.0
MW-6	6/27/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.21J	<1.0	<1.0	<1.0	<1.0
MW-6M	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0
MW-7	12/8/95	<5.00	<5.00	<5.00	<5.00	<25.0		<25.0	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	0.21J	0.27J	<1.0	<1.0	<1.0	<1.0
MW-7R	6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-8	11/21/03	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	0.22J	<1.0	<1.0	<1.0	<1.0	0.61J	<1.0	<1.0	<1.0	<1.0
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.30J	<1.0	<1.0	<1.0	<1.0
MW-9	12/8/95	<5.00	<5.00	<5.00	<5.00	<25.0		<25.0	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9R	10/24/97	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	0.67J	<1.0	<1.0	<1.0	<1.0	<1.0
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	0.53J	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	11/14/94	0.51J	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	1.5	<1.0	<1.0	<1.0	<1.0	0.57J	<1.0	<1.0	0.15J	<1.0
	12/29/94	<0.50	<0.50	<0.50	<0.50					<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/95	0.43J	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.27J	<1.0	<1.0
	12/8/95	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.10J	<1.0	<1.0	<1.0	<1.0
MW-10R	10/24/97	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/29/98	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/17/98	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/4/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/3/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.92J	<1.0	<1.0	<1.0	<1.0
	1/22/09	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

"J" = Estimated value.

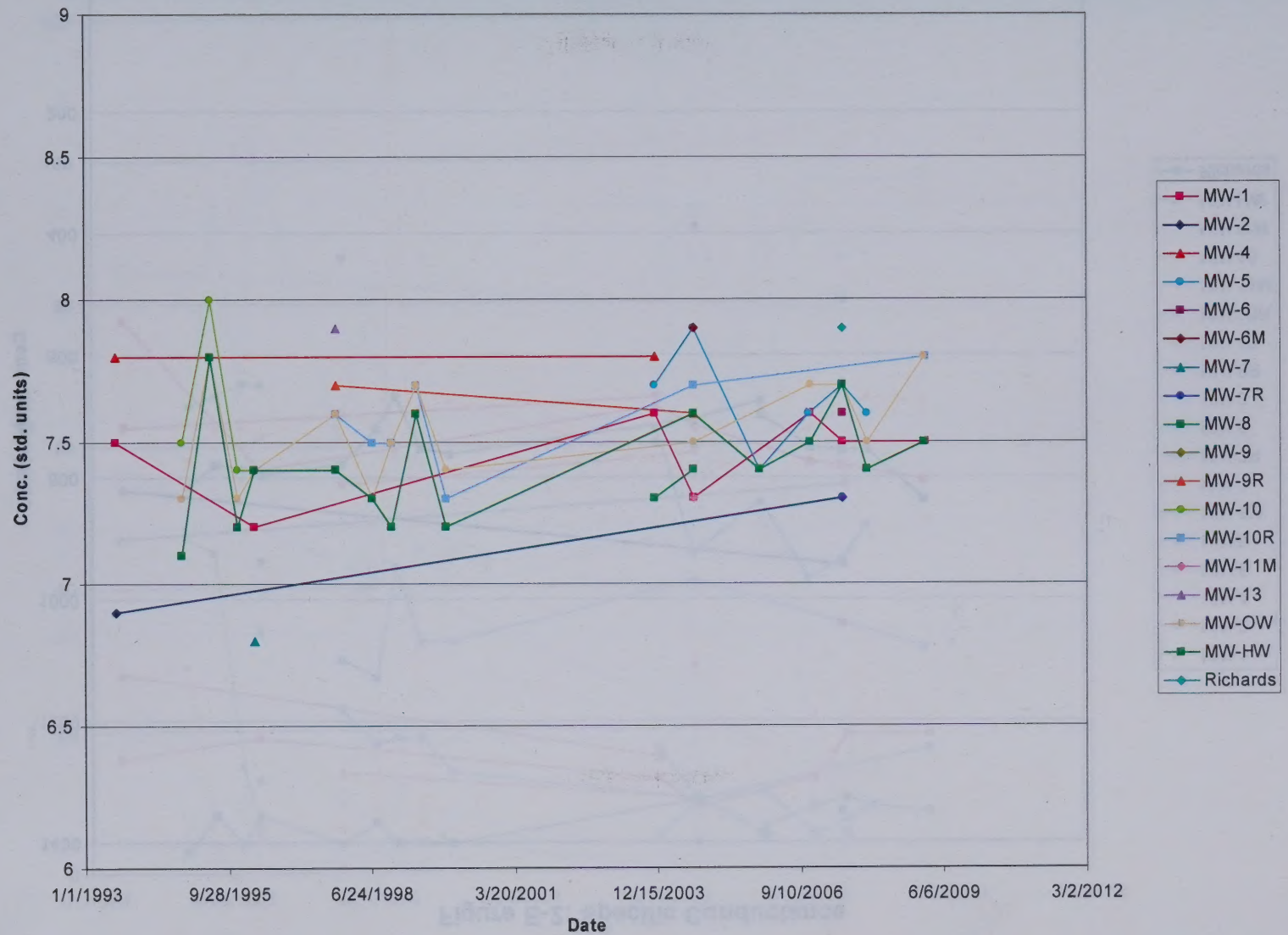
Table E-1: Historical Groundwater Quality

		VOCs (ug/l)																									
Well	Date	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl benzene	2-Hexanone	Iodomethane	Methyl ethyl ketone	Methyl isobutyl ketone	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoro-methane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	m+p-Xylenes	o-Xylene	Xylenes, Total		
MW-11M	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	0.29J	<1.0	<1.0	<1.0	<1.0	0.99J	<1.0	<1.0	<1.0	0.23J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
MW-13	10/24/97	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
MW-OW	11/14/94	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.18J	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0		
	12/29/94	<0.50	<0.50	<0.50	<0.50					<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
	5/25/95	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	12/8/95	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.11J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	10/24/97	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	6/29/98	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	11/17/98	0.45J	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	0.38J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	4.6	<1.0	<1.0		
	5/4/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	12/2/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	8/20/04	0.26J	<1.0	<1.0	3.0	<20	<1.0	<20	<20	0.22J	2.0	<1.0	<1.0	<1.0	<1.0	0.84J	<1.0	<1.0	0.41J	<1.0	<1.0	<1.0	<1.0	2.6	0.65J	<1.0	0.65J
	8/20/04	0.25J	<1.0	<1.0	3.0	<20	<1.0	<20	<20	0.21J	2.1	<1.0	<1.0	<1.0	<1.0	0.84J	<1.0	<1.0	0.43J	<1.0	<1.0	<1.0	<1.0	2.6	0.64J	<1.0	0.64J
	11/10/06	<1.0	<1.0	<1.0	0.20J	<10	<1.0	<20	<10	<1.0	0.13J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22J	<1.0	<1.0	<1.0	0.75J	<1.0	<1.0	<1.0	
	6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24J	<1.0	<1.0	<1.0	<1.0	
	12/18/07	0.18J	<1.0	<1.0	3.3	<20	<1.0	<20	<20	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.67J	<1.0	<1.0	<1.0	1.7	0.64J	<1.0	0.64J	
	1/21/09	<1.0	<1.0	<1.0	3.9	<20	<1.0	<20	<20	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.26J	<1.0	<1.0	<1.0	0.73J	0.61J	<1.0	0.61J	
MW-HW	6/10/80																										
	11/14/94	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	5/25/95	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.17J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	12/8/95	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	3/30/96	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	0.14J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	10/24/97	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	6/29/98	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	11/17/98	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	5/4/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	12/2/99	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	8/20/04	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	11/29/05	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	11/29/05	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	11/10/06	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
6/28/07	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
12/18/07	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
1/21/09	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Richards	6/28/07	<0.50	<0.50	<0.50	<0.50					<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		

"J" = Estimated value.

Table E-1: Historical Groundwater Quality

Figure E-1: pH



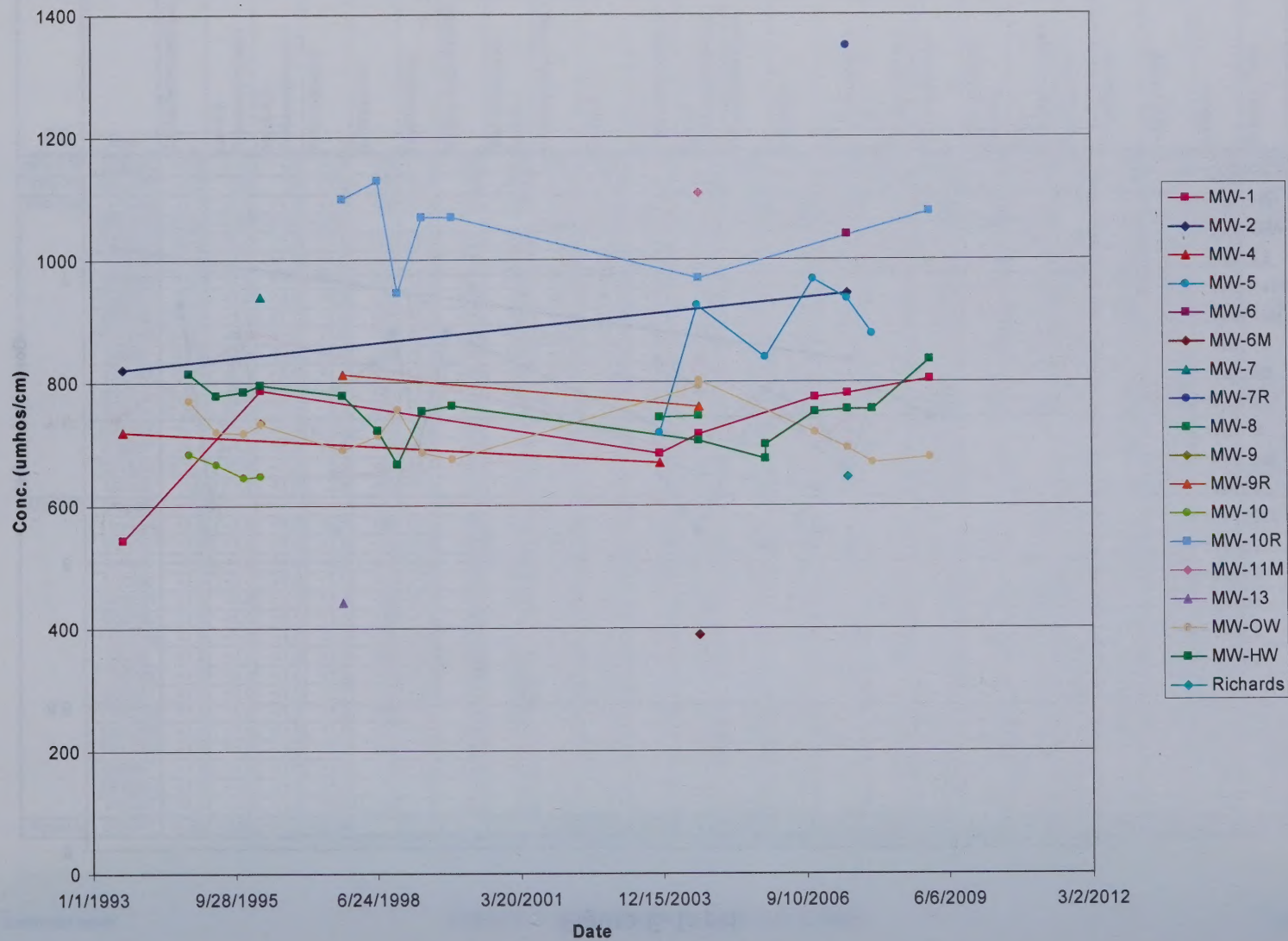


Figure E-3: Chloride

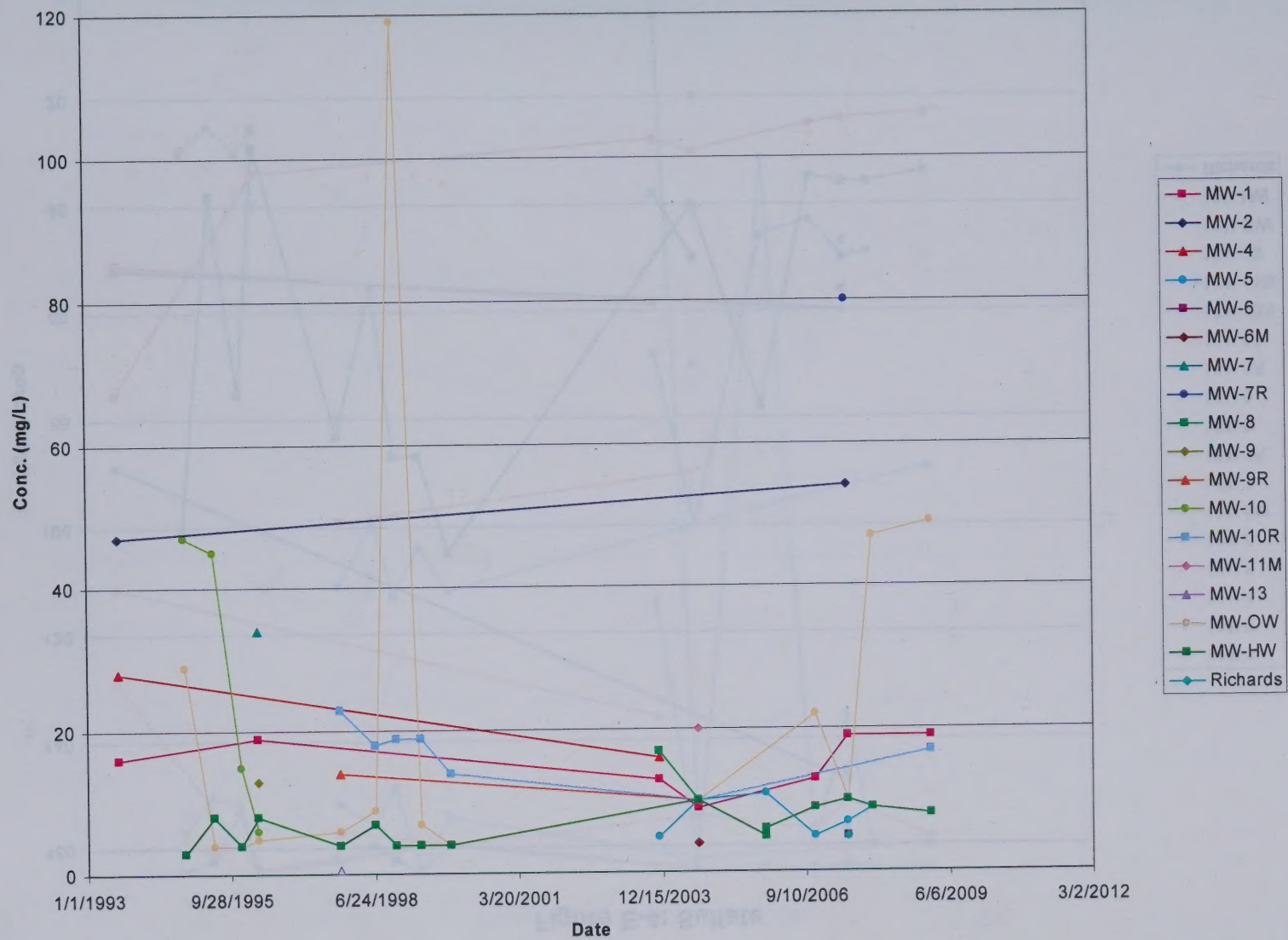


Figure E-4: Sulfate

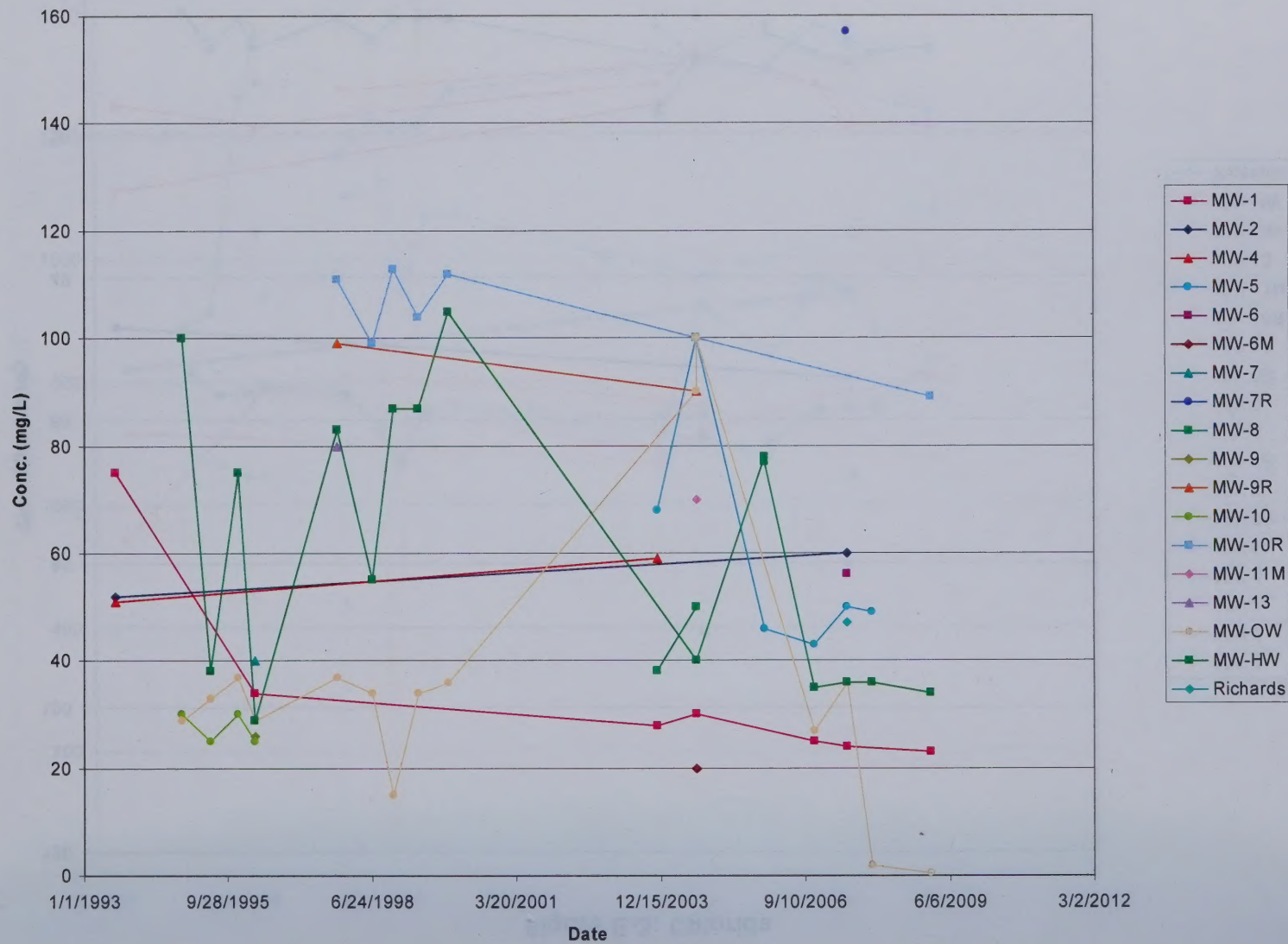


Figure E-5: Chemical Oxygen Demand

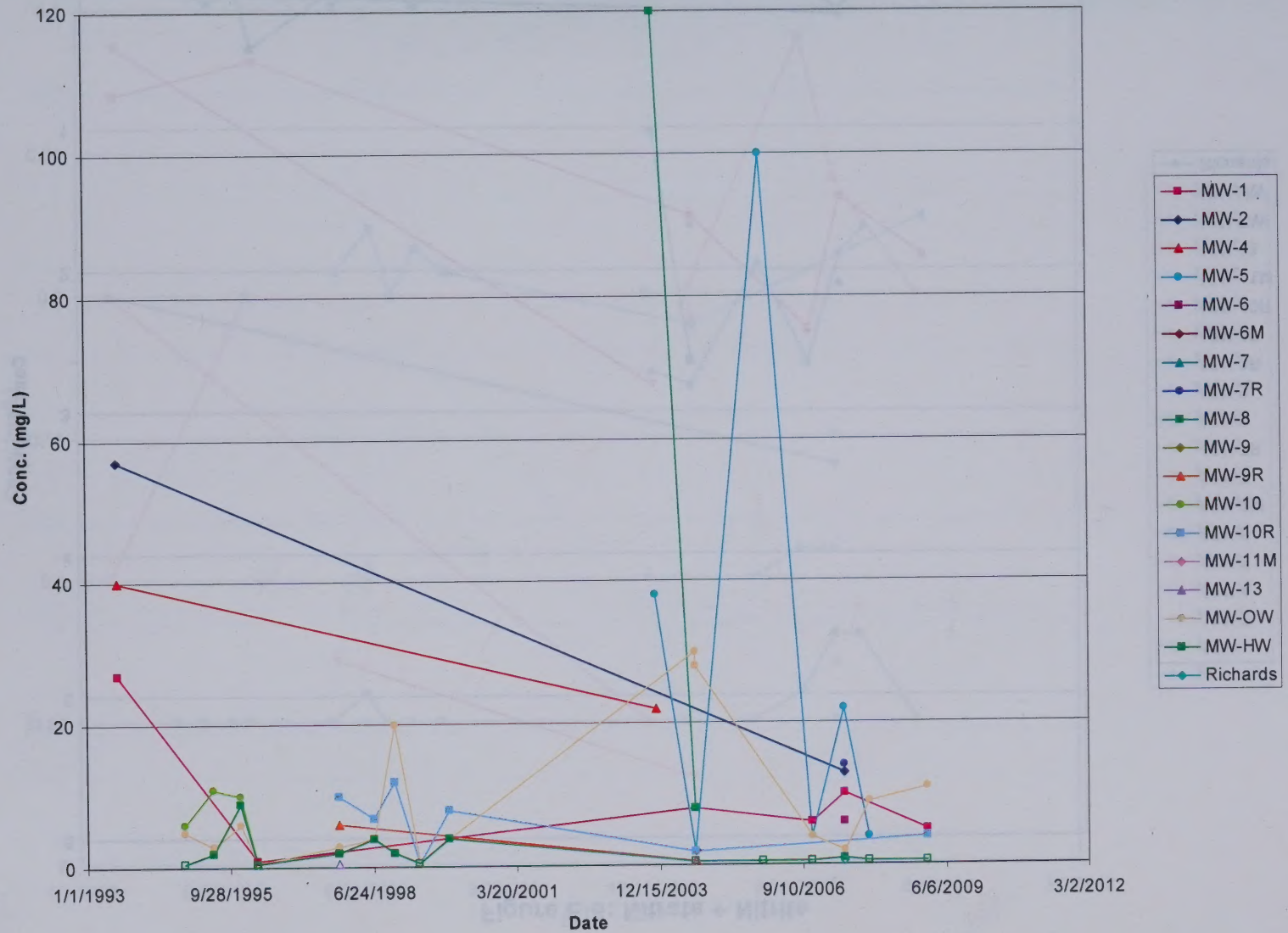
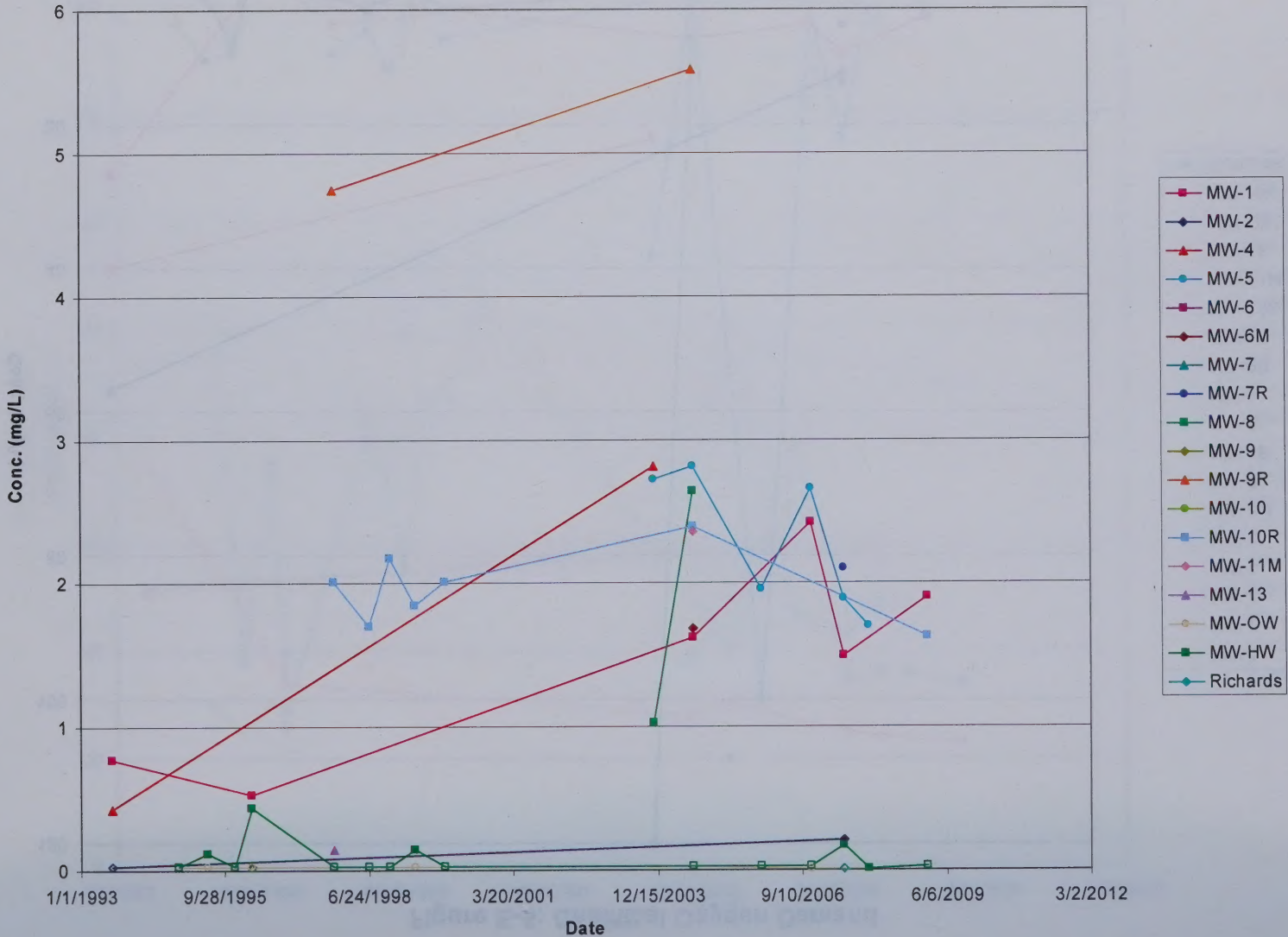
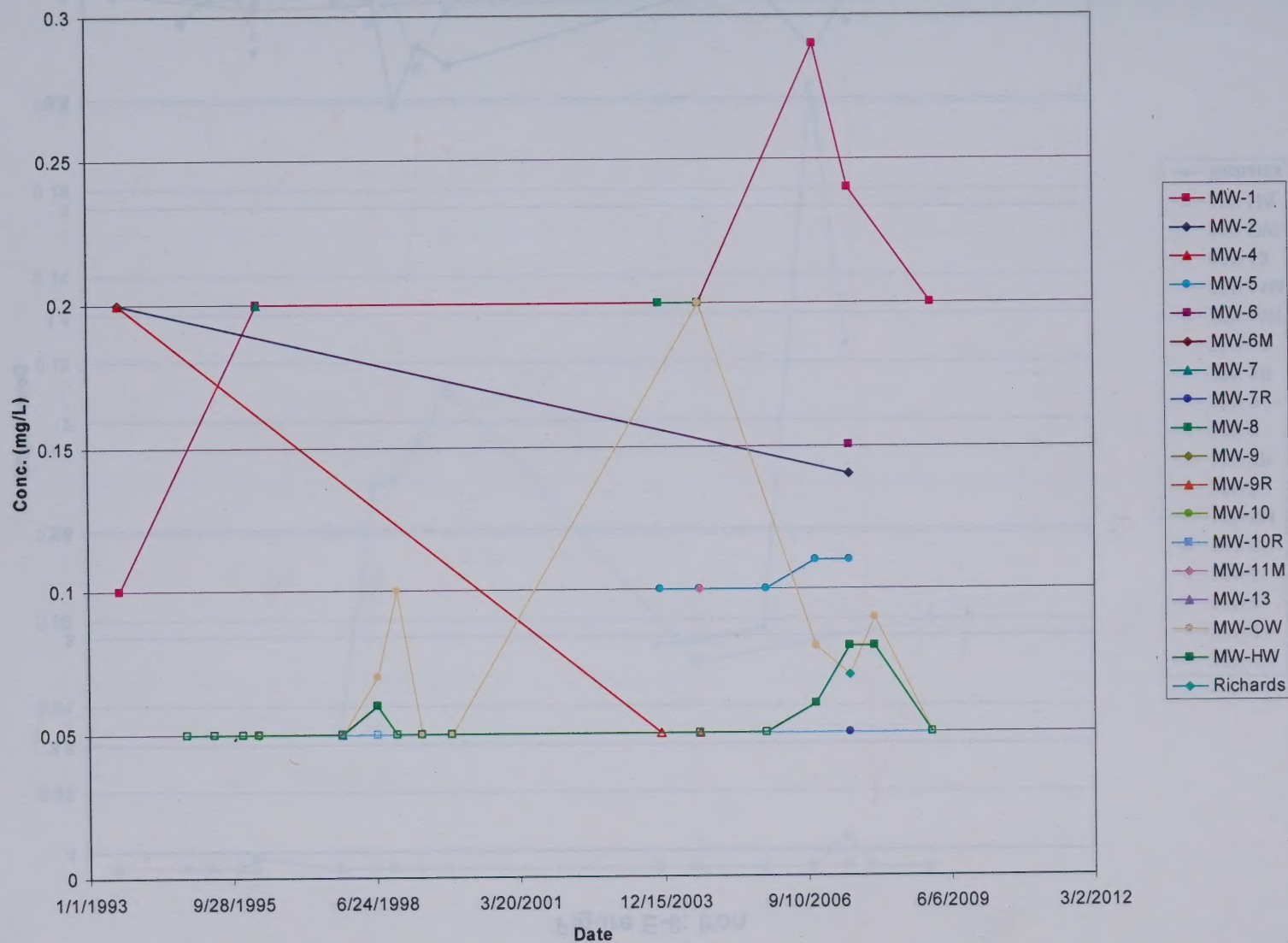


Figure 2. Estimated values of β_1 and β_2 for the 1990-1999 period.



4

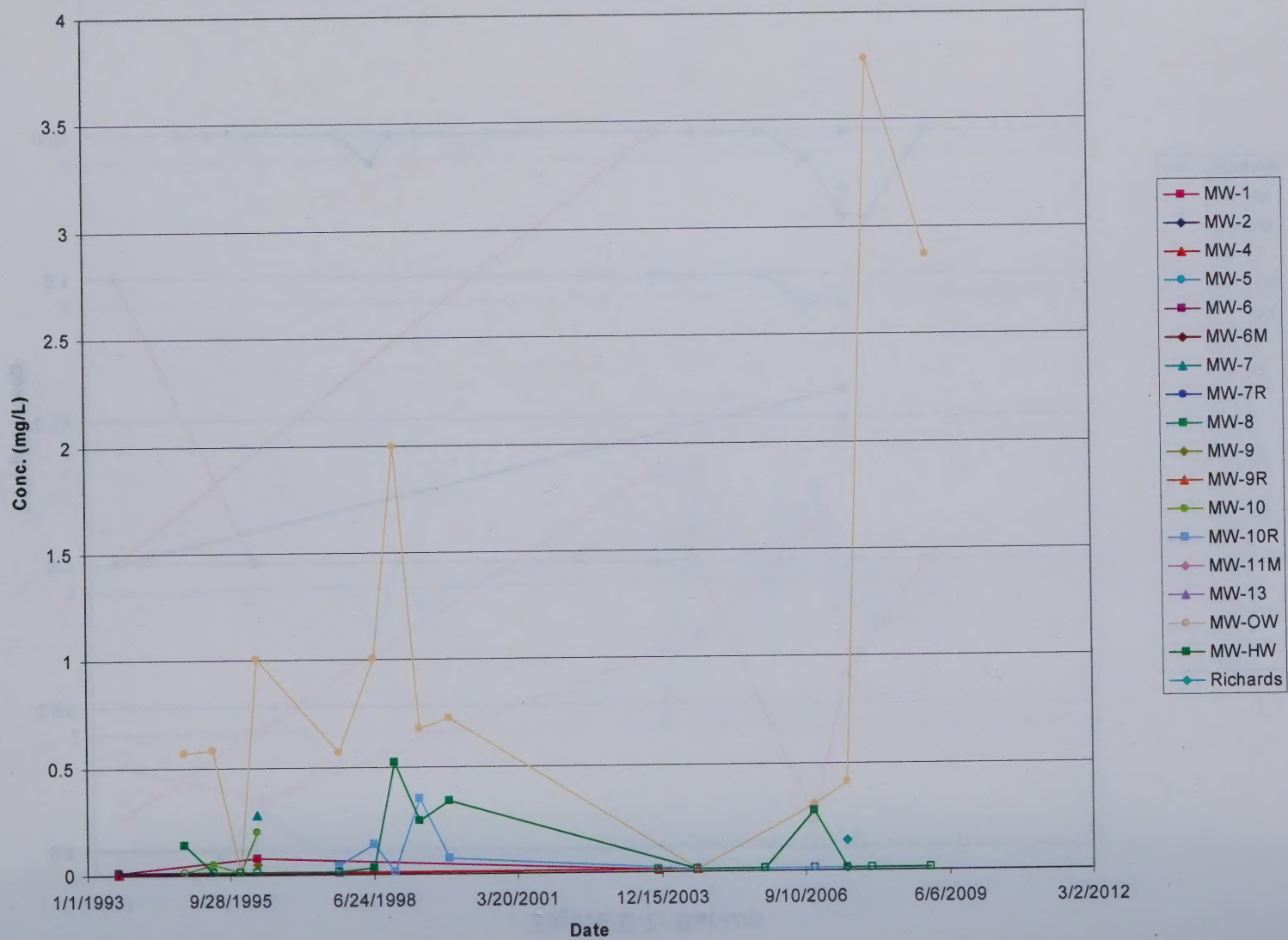


Figure E-9: Selenium

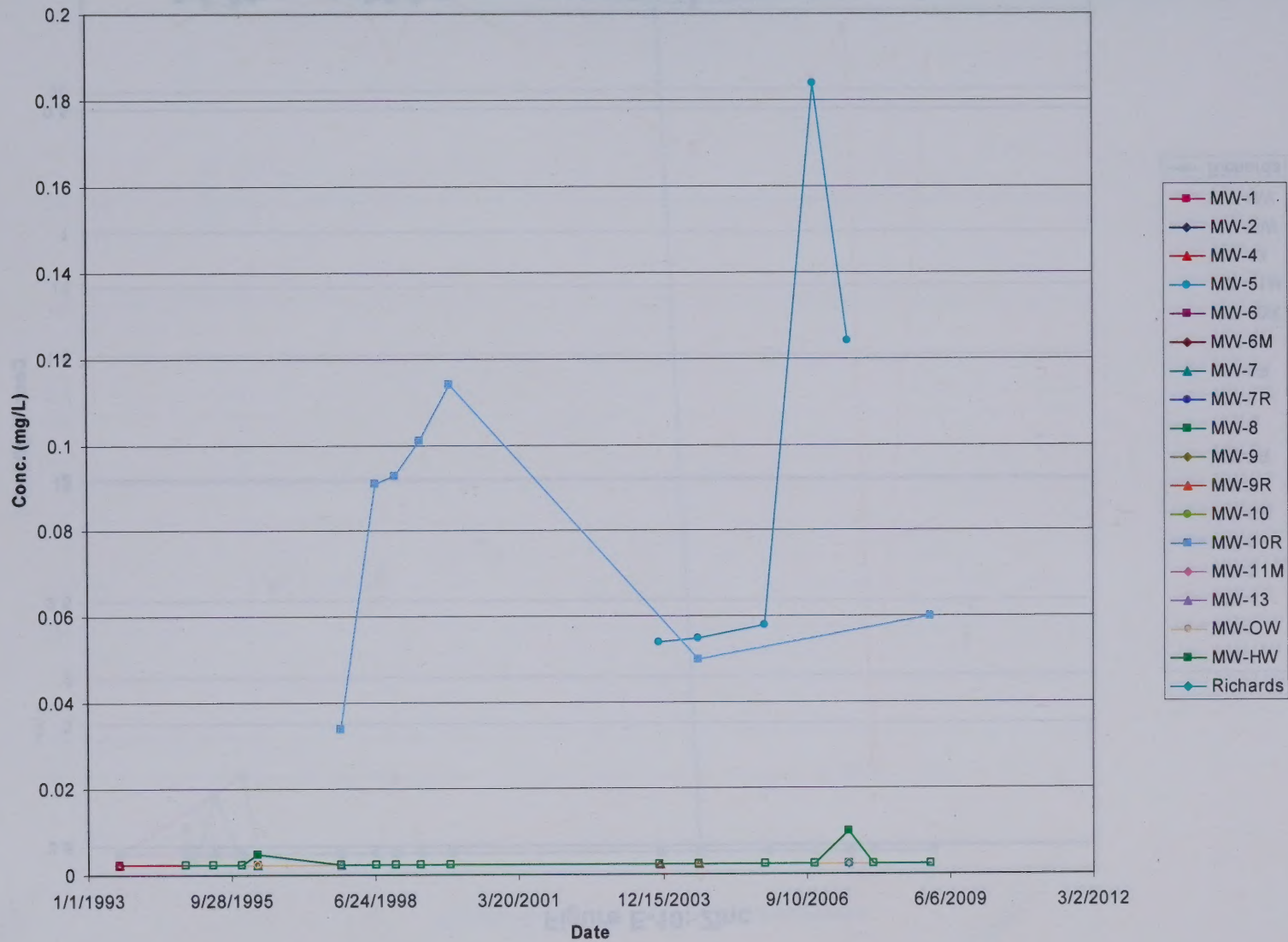


Figure E-10: Zinc

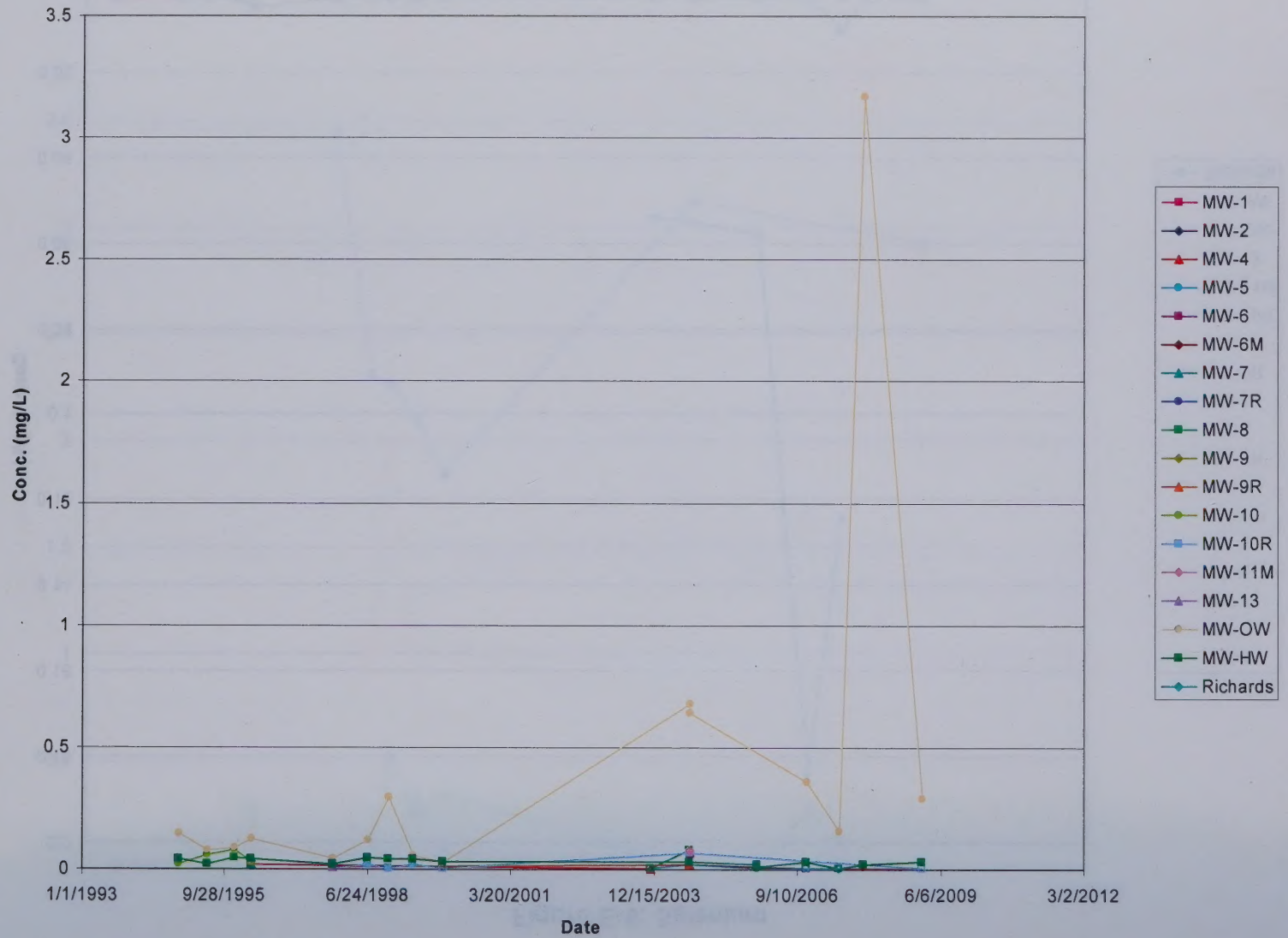


Figure E-11: Benzene

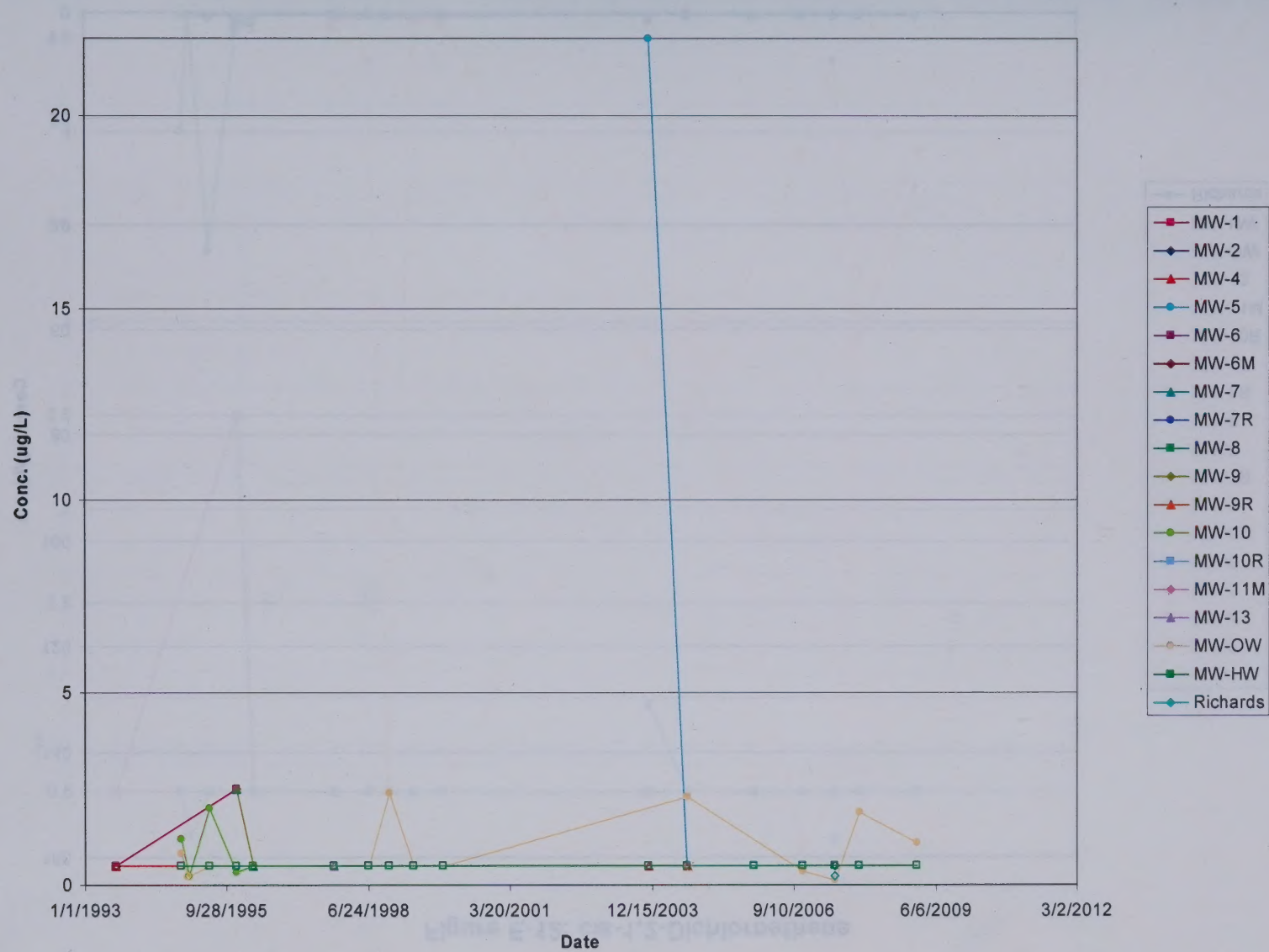


Figure E-12: cis-1,2-Dichloroethene

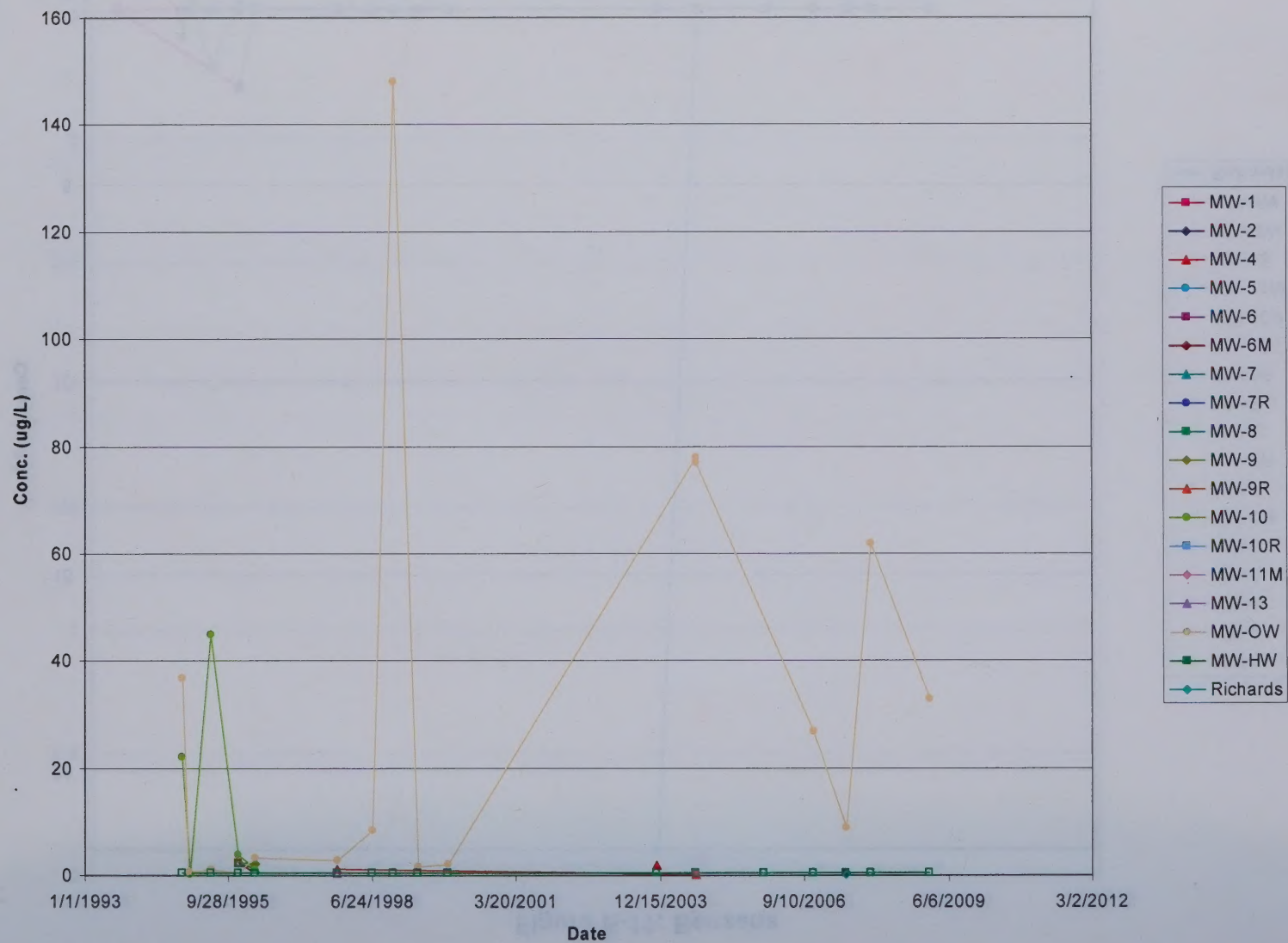




Figure E-14: Styrene

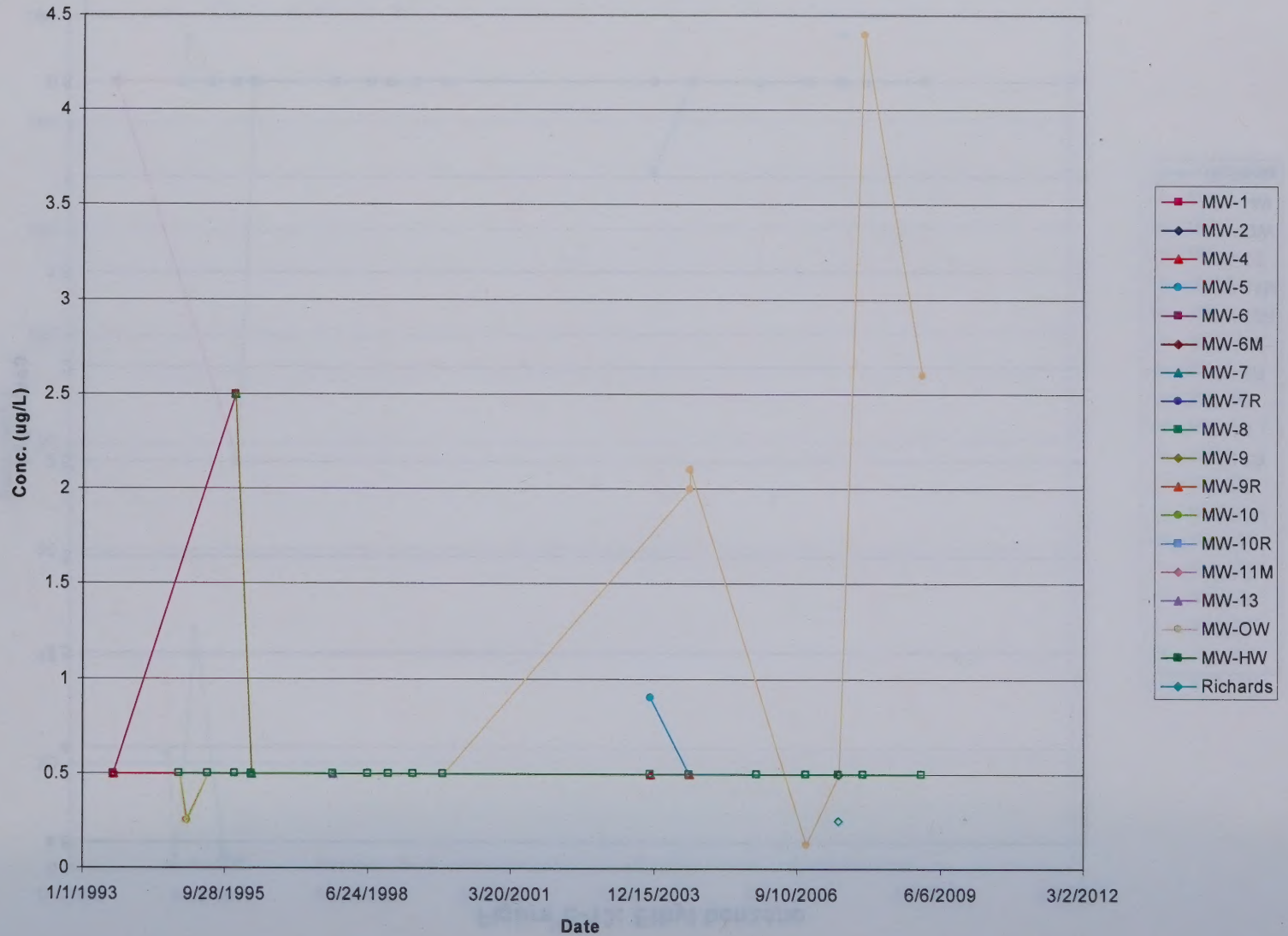


Figure 2. 100 °C DSC thermograms of

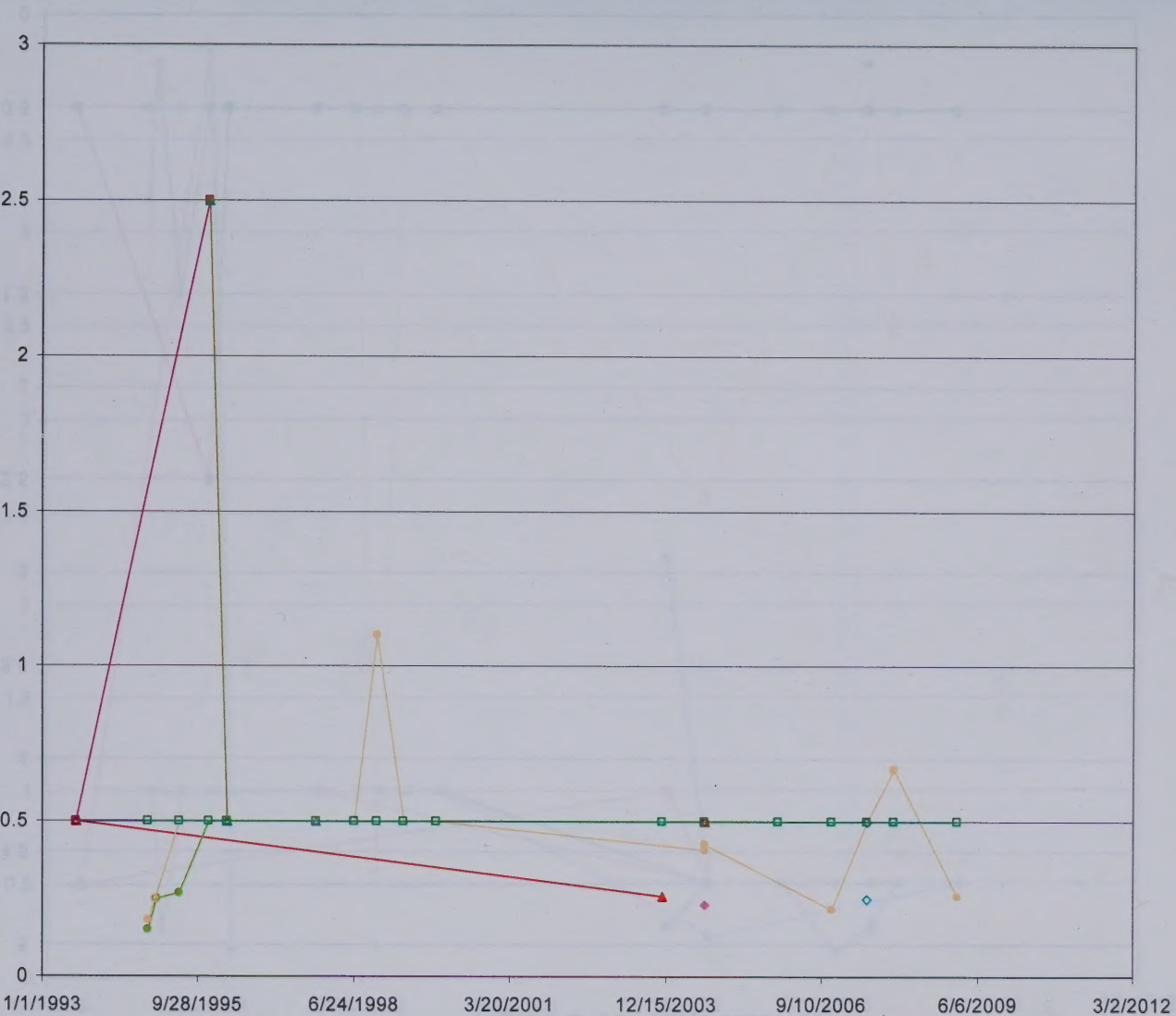


Figure E-16: Vinyl chloride



Figure E-17: Total Xylenes



APPENDIX F: RESULTS OF STATISTICAL ANALYSES

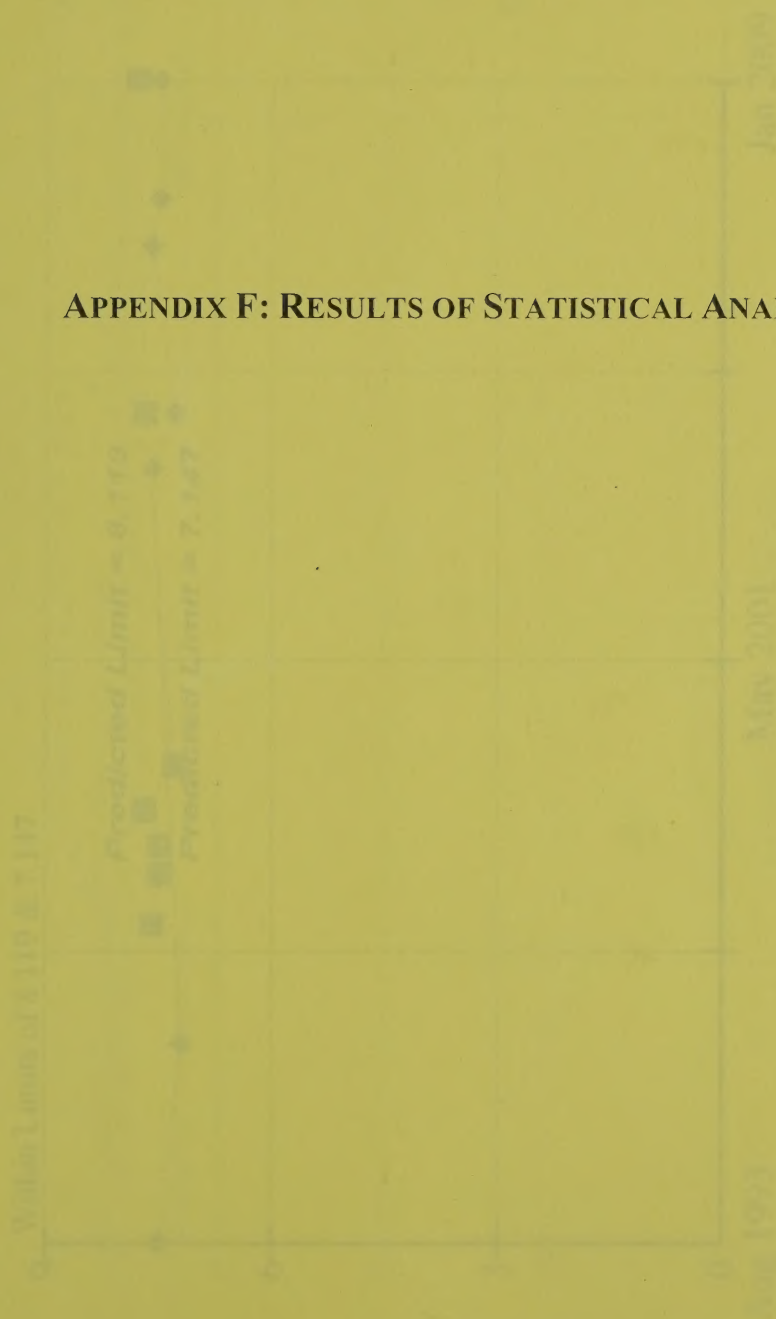
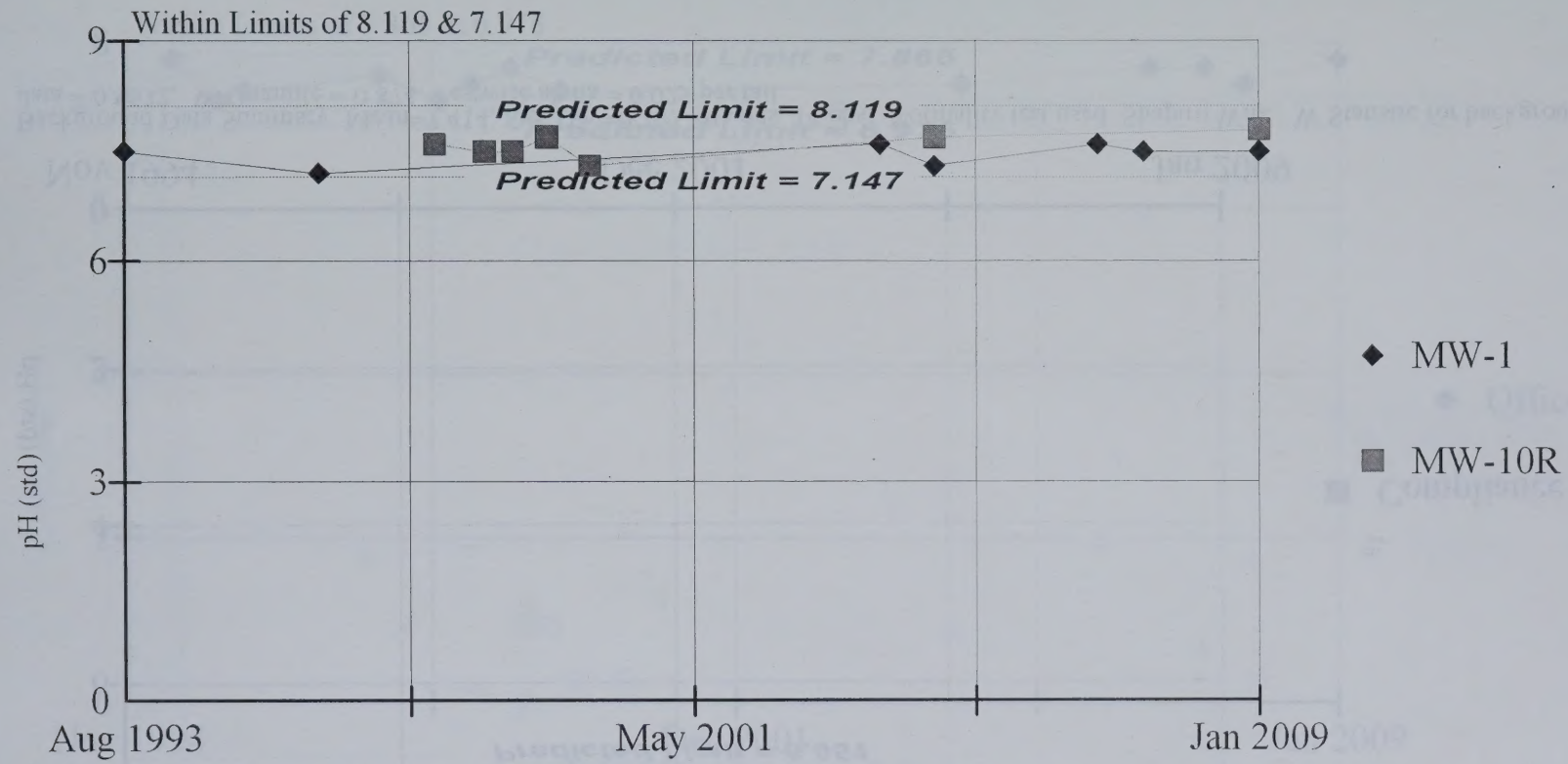


Figure F-1: Prediction Interval Analysis for pH in Shallow Wells

PARM. 2-TAILED INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=7.633, Std. Dev=0.2, 0% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk, W Statistic for background data = 0.9272, W Quantile = 0.829. Testwise alpha = 0.04875 per tail., 0.025 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-1: Prediction Interval Analysis for pH in Shallow Wells

PARM. 2-TAILED INTRA-WELL PREDICTION INTERVAL House

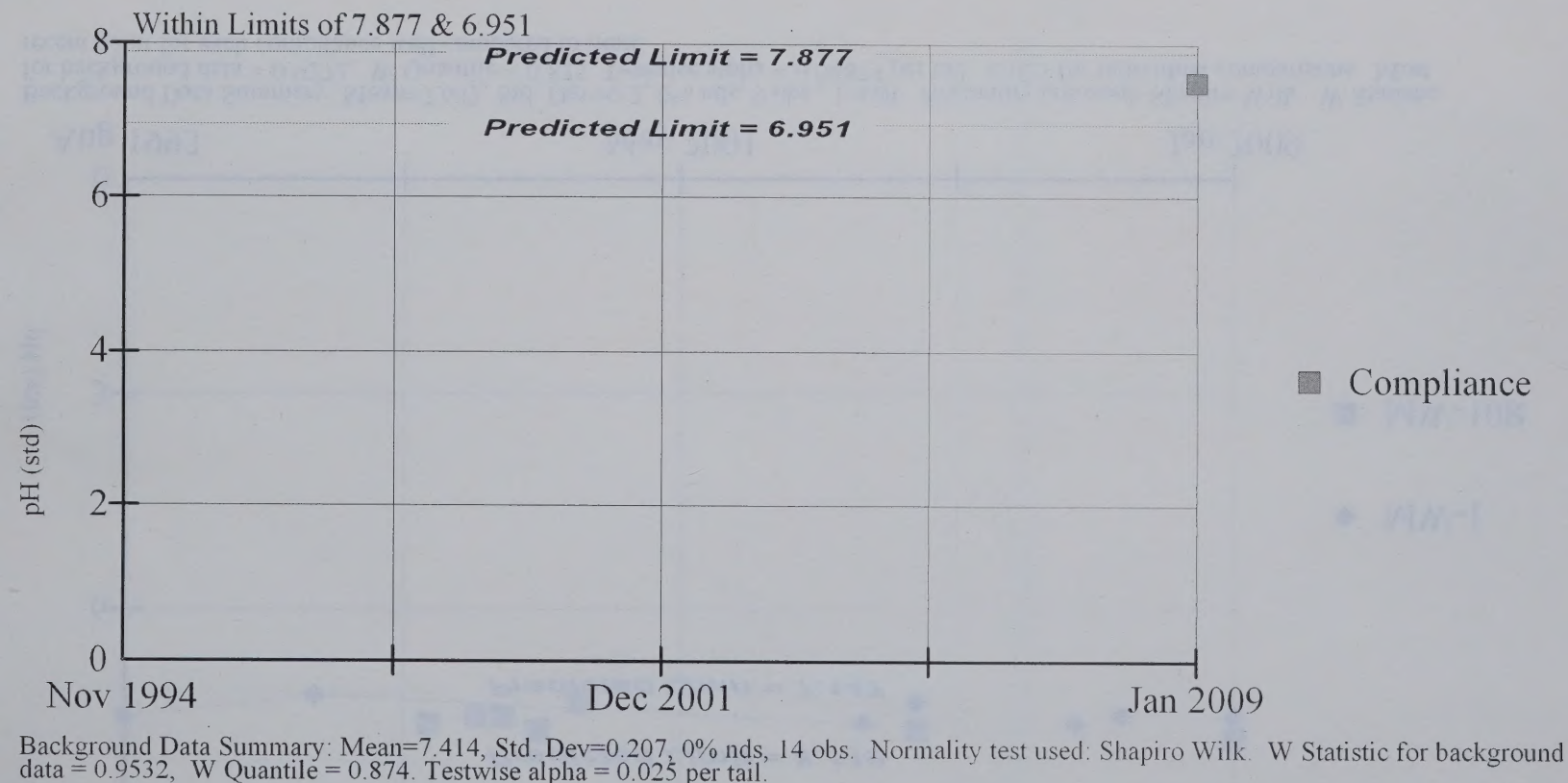
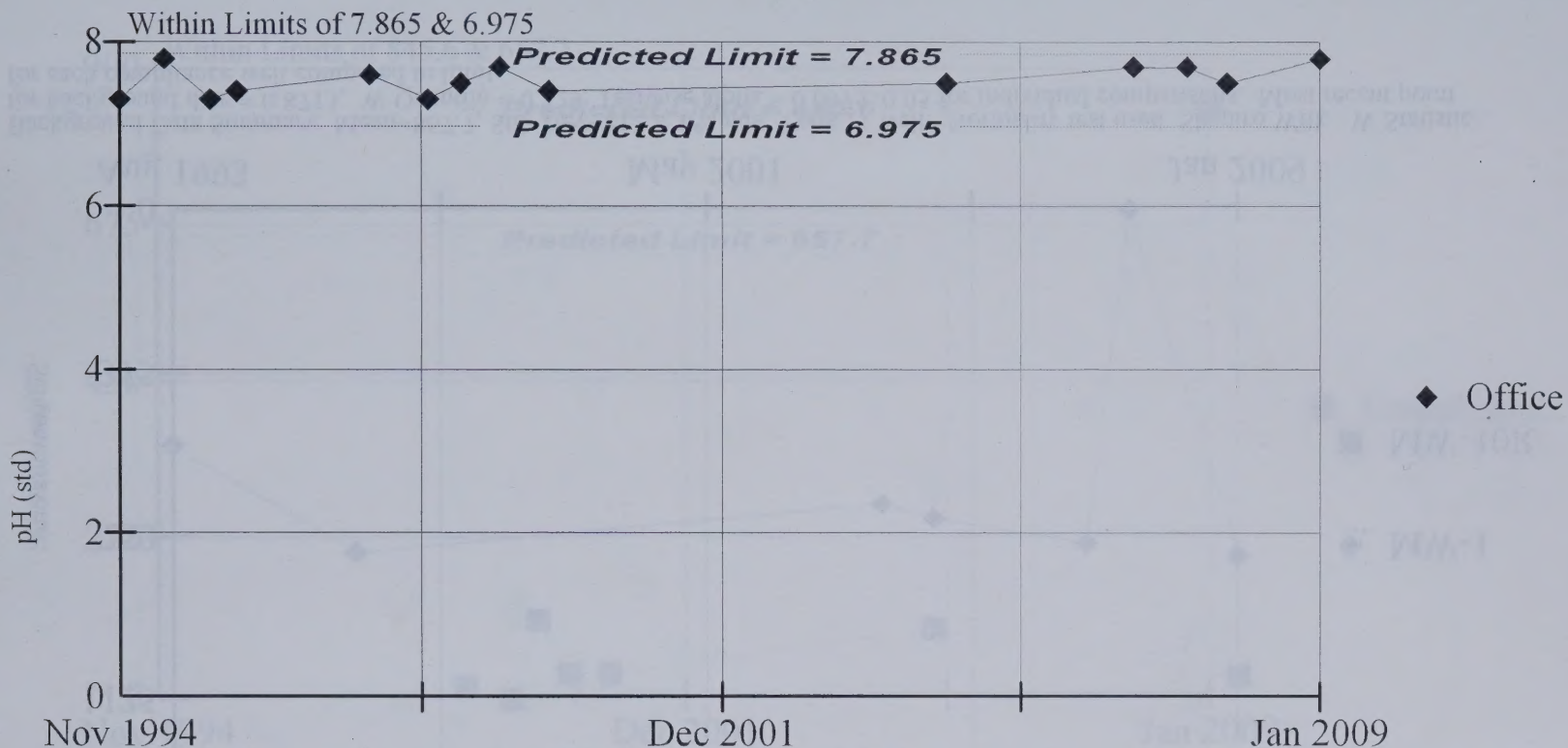


Figure F-2: Background Analysis for pH in MW-HW

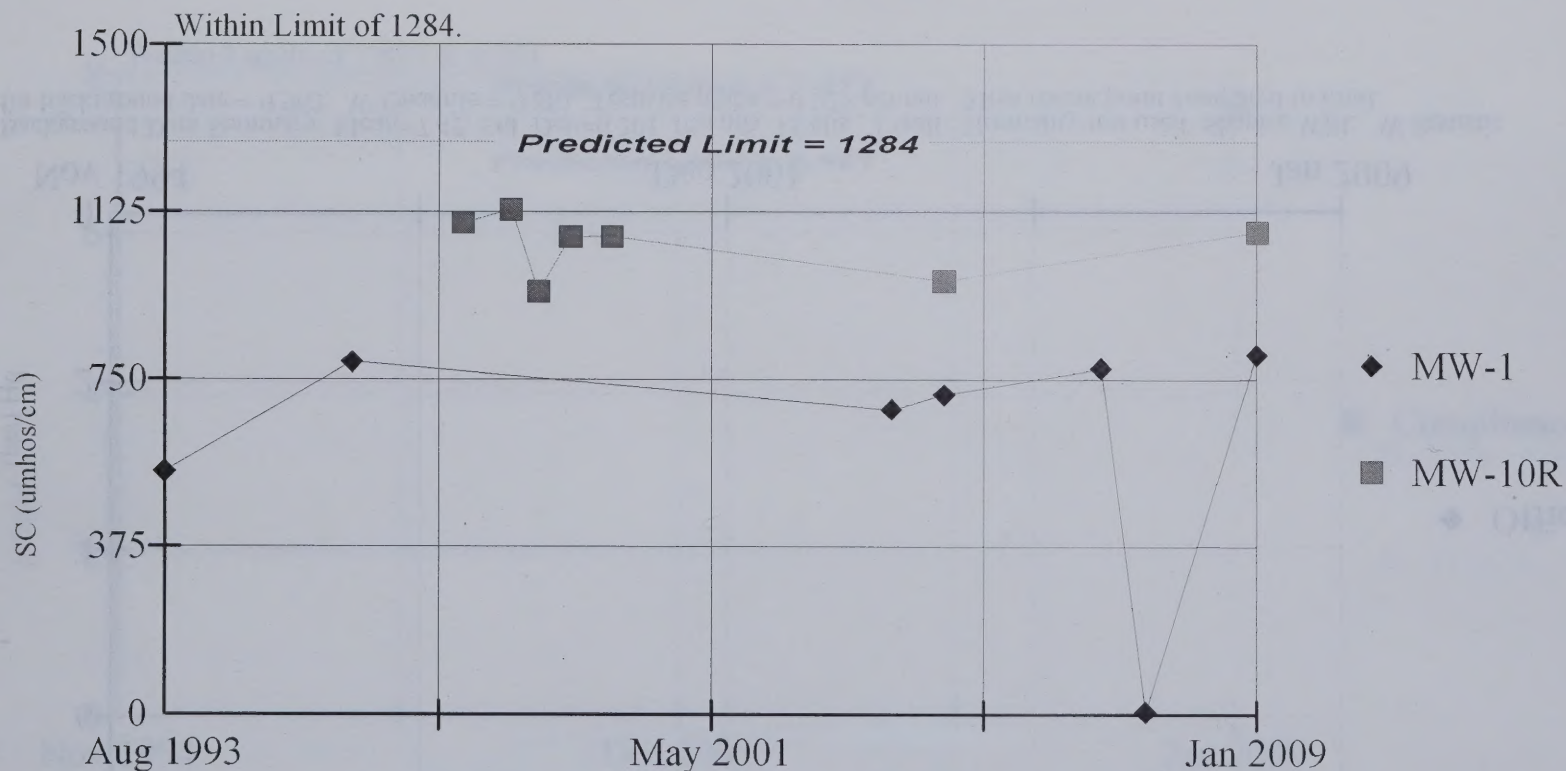
PARM. 2-TAILED INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=7.42, Std. Dev=0.201, 0% nds, 15 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.962, W Quantile = 0.881. Testwise alpha = 0.025 per tail. Most recent point compared to limit.

Figure F-3: Prediction Interval Analysis for pH in Deep Wells

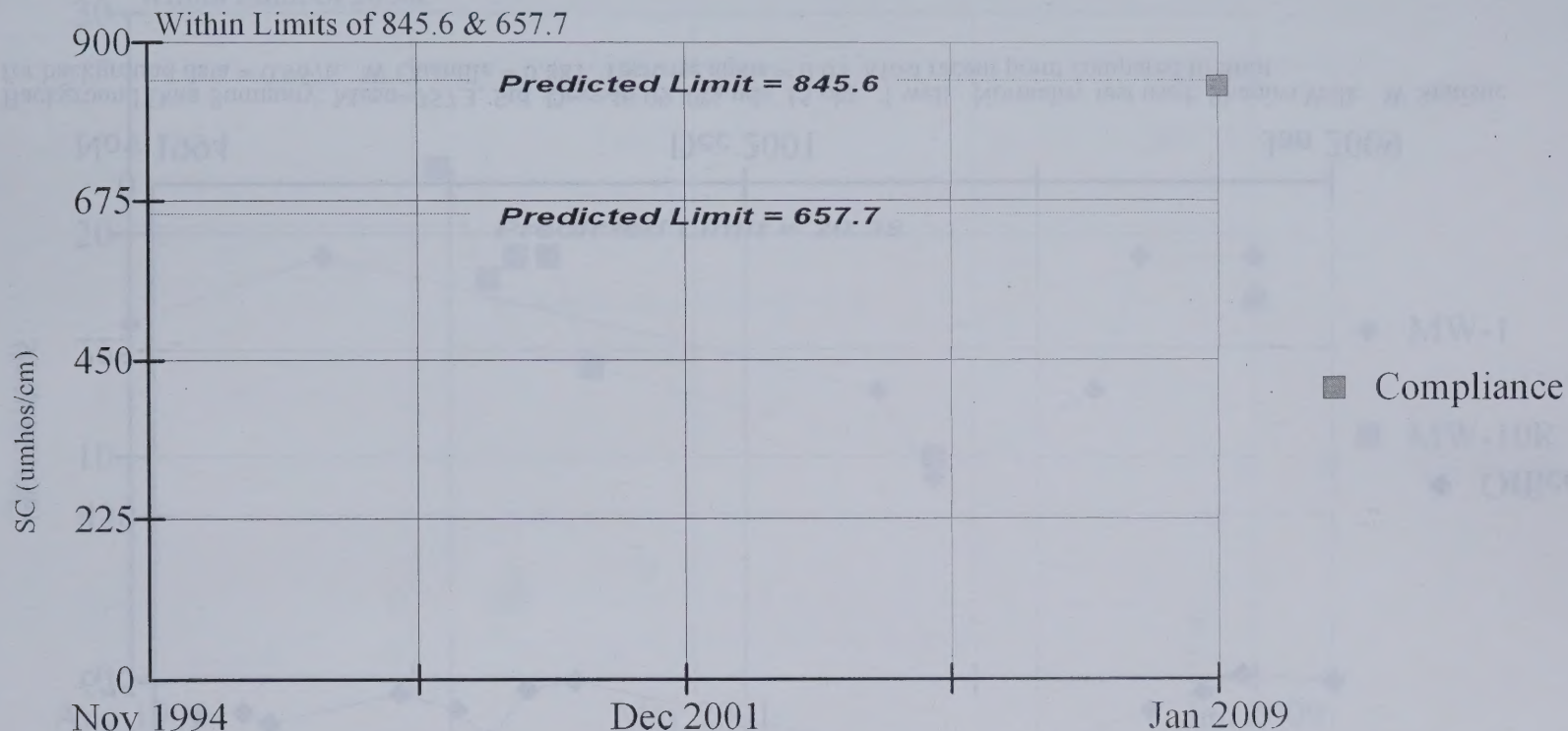
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=867.7, Std. Dev=212.2, 0% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.8713, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-4: Prediction Interval Analysis for Specific Conductance in Shallow Wells

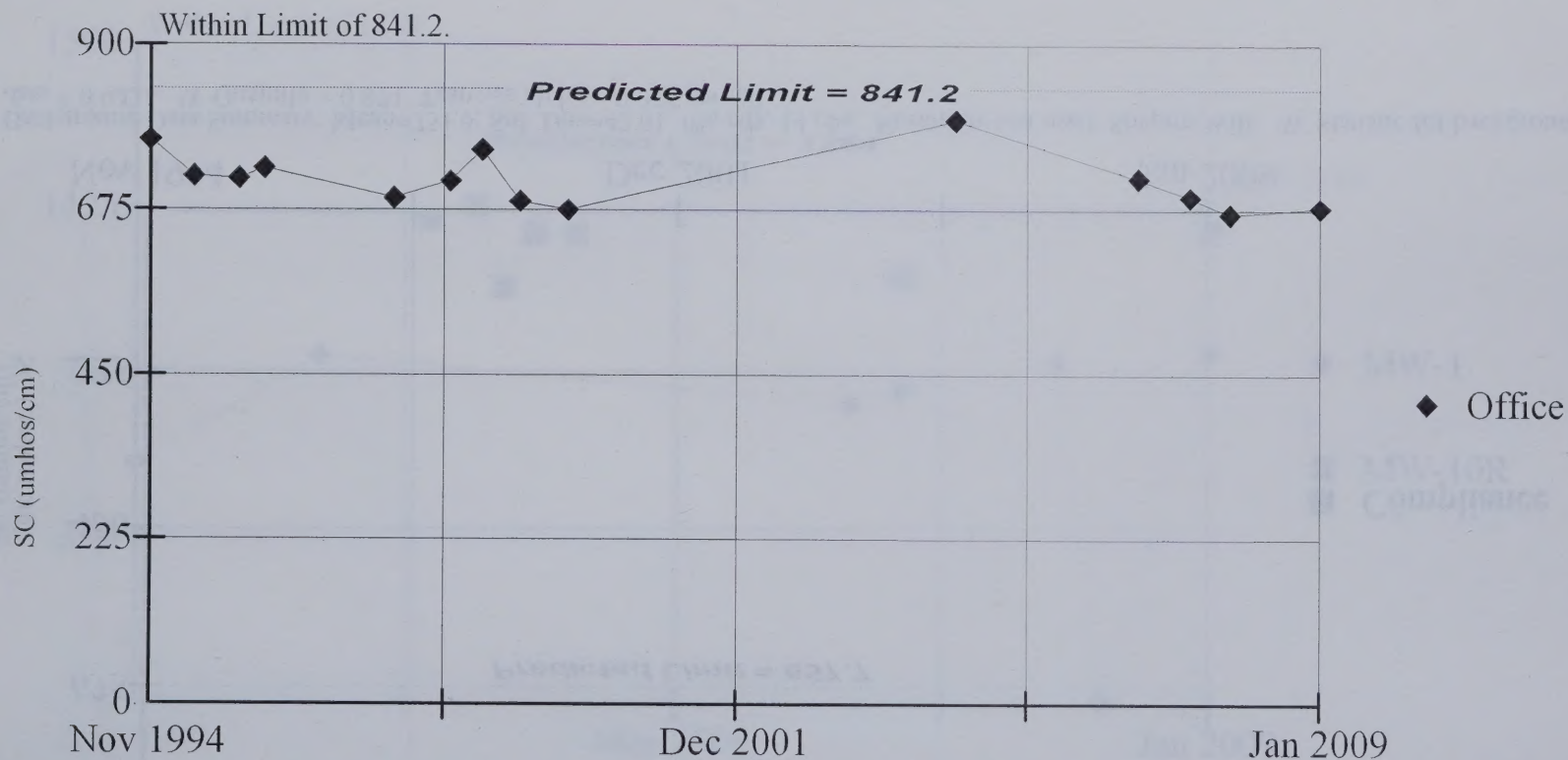
PARM. 2-TAILED INTRA-WELL PREDICTION INTERVAL House



Background Data Summary: Mean=751.6, Std. Dev=42.01, 0% nds, 14 obs. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9424, W Quantile = 0.874. Testwise alpha = 0.025 per tail.

Figure F-5: Background Analysis for Specific Conductance in MW-HW

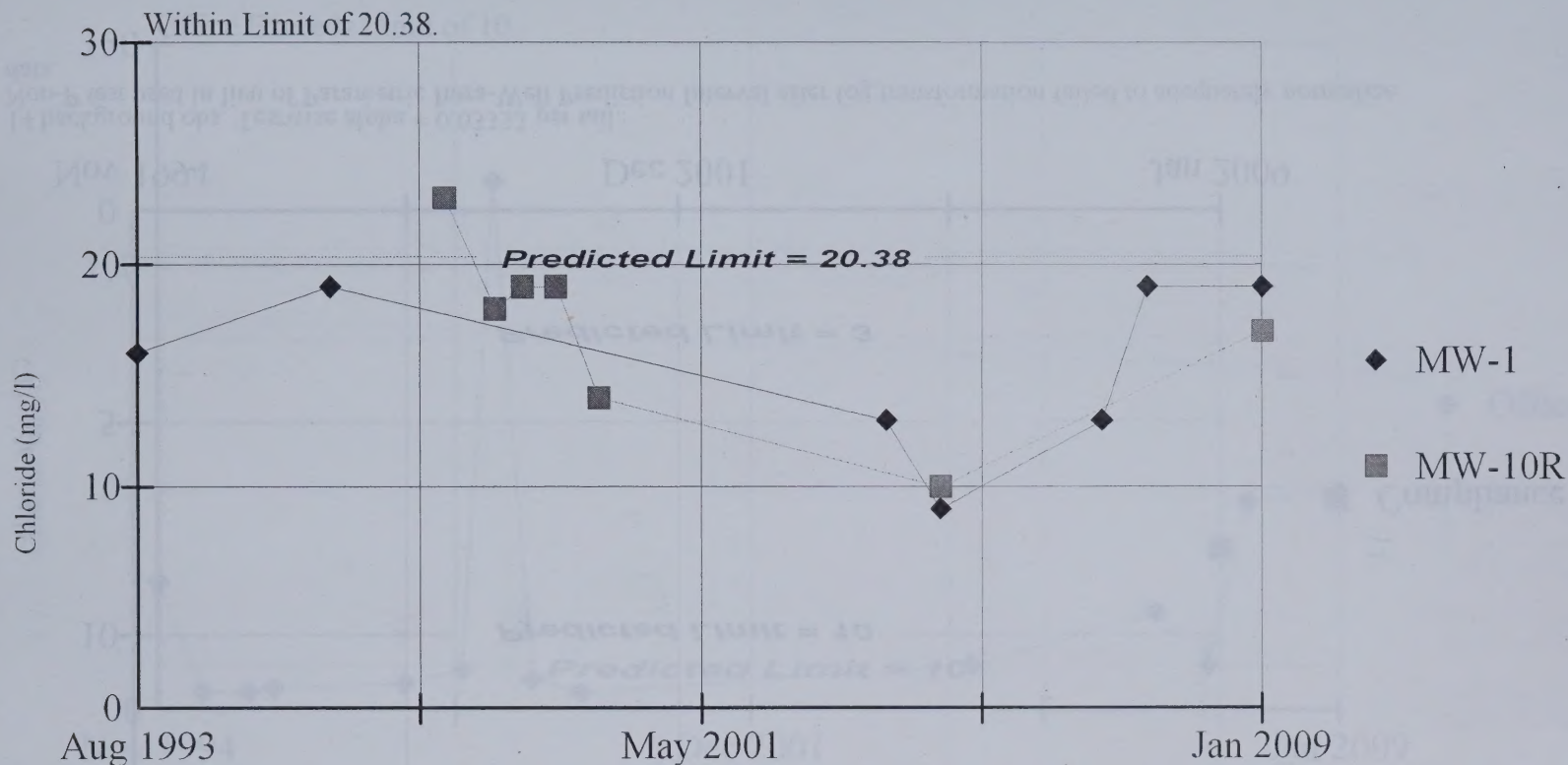
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=757.3, Std. Dev=46.09, 0% nds, 15 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9676, W Quantile = 0.881. Testwise alpha = 0.05 Most recent point compared to limit.

Figure F-6: Prediction Interval Analysis for Specific Conductance in Deep Wells

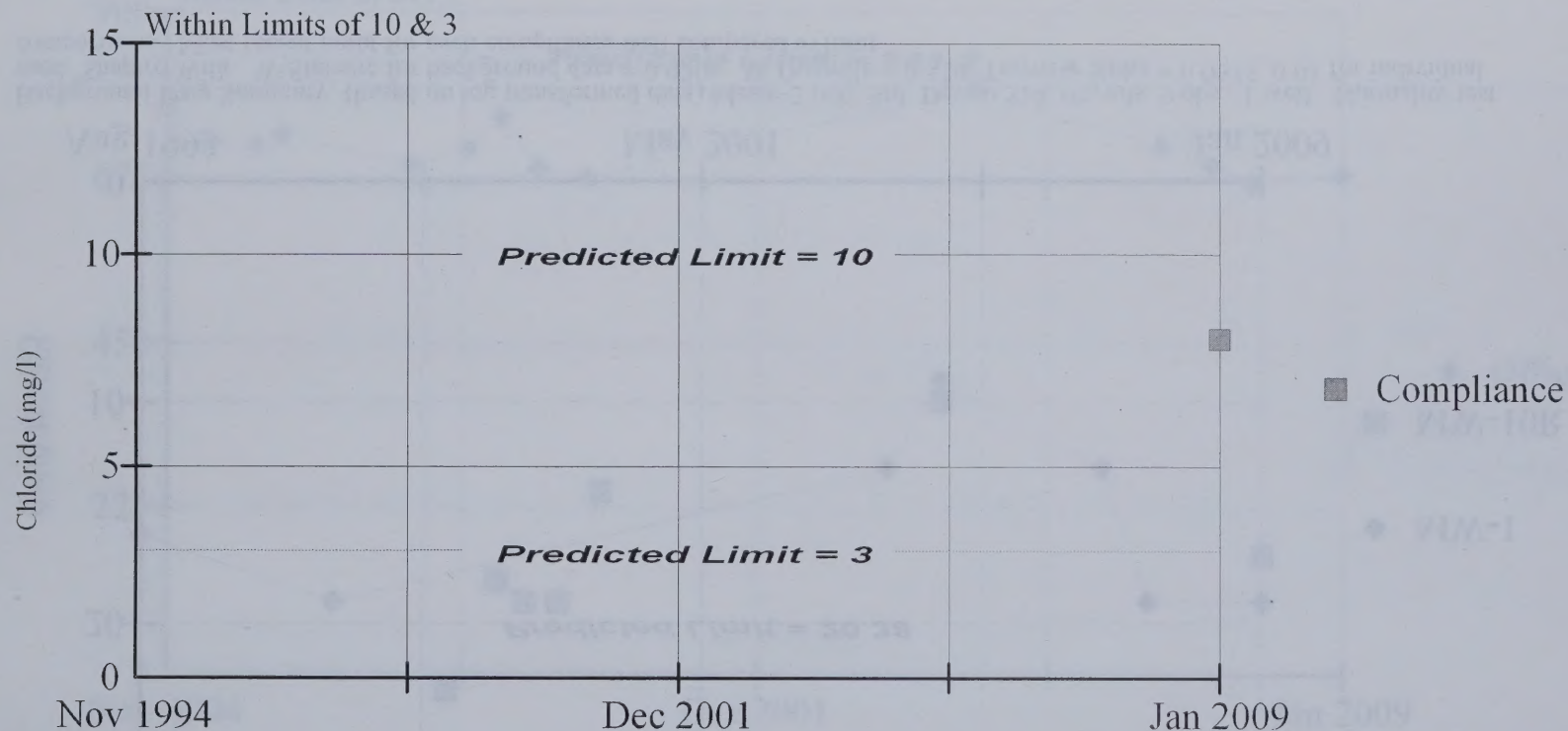
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: (based on log transformed data) Mean=2.006, Std. Dev=0.514, 0% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9206, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-7: Prediction Interval Analysis for Chloride in Shallow Wells

NP 2-TAILED INTRA-WELL PREDICTION INTERVAL House



14 background obs. Testwise alpha = 0.03333 per tail.

Non-P test used in lieu of Parametric Intra-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-8: Background Analysis for Chloride in MW-HW

Office Exceeds Limit of 10.

Predicted Limit = 10

Date	Office Visits
Nov 1994	30
Dec 1994	5
Jan 1995	5
Feb 1995	6
Mar 1995	7
Apr 1995	8
May 1995	9
Jun 1995	10
Jul 1995	11
Aug 1995	12
Sep 1995	13
Oct 1995	14
Nov 1995	15
Dec 1995	16
Jan 1996	17
Feb 1996	18
Mar 1996	19
Apr 1996	20
May 1996	21
Jun 1996	22
Jul 1996	23
Aug 1996	24
Sep 1996	25
Oct 1996	26
Nov 1996	27
Dec 1996	28
Jan 1997	29
Feb 1997	30
Mar 1997	31
Apr 1997	32
May 1997	33
Jun 1997	34
Jul 1997	35
Aug 1997	36
Sep 1997	37
Oct 1997	38
Nov 1997	39
Dec 1997	40
Jan 1998	41
Feb 1998	42
Mar 1998	43
Apr 1998	44
May 1998	45
Jun 1998	46
Jul 1998	47
Aug 1998	48
Sep 1998	49
Oct 1998	50
Nov 1998	51
Dec 1998	52
Jan 1999	53
Feb 1999	54
Mar 1999	55
Apr 1999	56
May 1999	57
Jun 1999	58
Jul 1999	59
Aug 1999	60
Sep 1999	61
Oct 1999	62
Nov 1999	63
Dec 1999	64
Jan 2000	65
Feb 2000	66
Mar 2000	67
Apr 2000	68
May 2000	69
Jun 2000	70
Jul 2000	71
Aug 2000	72
Sep 2000	73
Oct 2000	74
Nov 2000	75
Dec 2000	76
Jan 2001	77
Feb 2001	78
Mar 2001	79
Apr 2001	80
May 2001	81
Jun 2001	82
Jul 2001	83
Aug 2001	84
Sep 2001	85
Oct 2001	86
Nov 2001	87
Dec 2001	88
Jan 2002	89
Feb 2002	90
Mar 2002	91
Apr 2002	92
May 2002	93
Jun 2002	94
Jul 2002	95
Aug 2002	96
Sep 2002	97
Oct 2002	98
Nov 2002	99
Dec 2002	100
Jan 2003	101
Feb 2003	102
Mar 2003	103
Apr 2003	104
May 2003	105
Jun 2003	106
Jul 2003	107
Aug 2003	108
Sep 2003	109
Oct 2003	110
Nov 2003	111
Dec 2003	112
Jan 2004	113
Feb 2004	114
Mar 2004	115
Apr 2004	116
May 2004	117
Jun 2004	118
Jul 2004	119
Aug 2004	120
Sep 2004	121
Oct 2004	122
Nov 2004	123
Dec 2004	124
Jan 2005	125
Feb 2005	126
Mar 2005	127
Apr 2005	128
May 2005	129
Jun 2005	130
Jul 2005	131
Aug 2005	132
Sep 2005	133
Oct 2005	134
Nov 2005	135
Dec 2005	136
Jan 2006	137
Feb 2006	138
Mar 2006	139
Apr 2006	140
May 2006	141
Jun 2006	142
Jul 2006	143
Aug 2006	144
Sep 2006	145
Oct 2006	146
Nov	

Figure F-9: Prediction Interval Analysis for Chloride in Deep Wells

SEN'S SLOPE ESTIMATOR Office

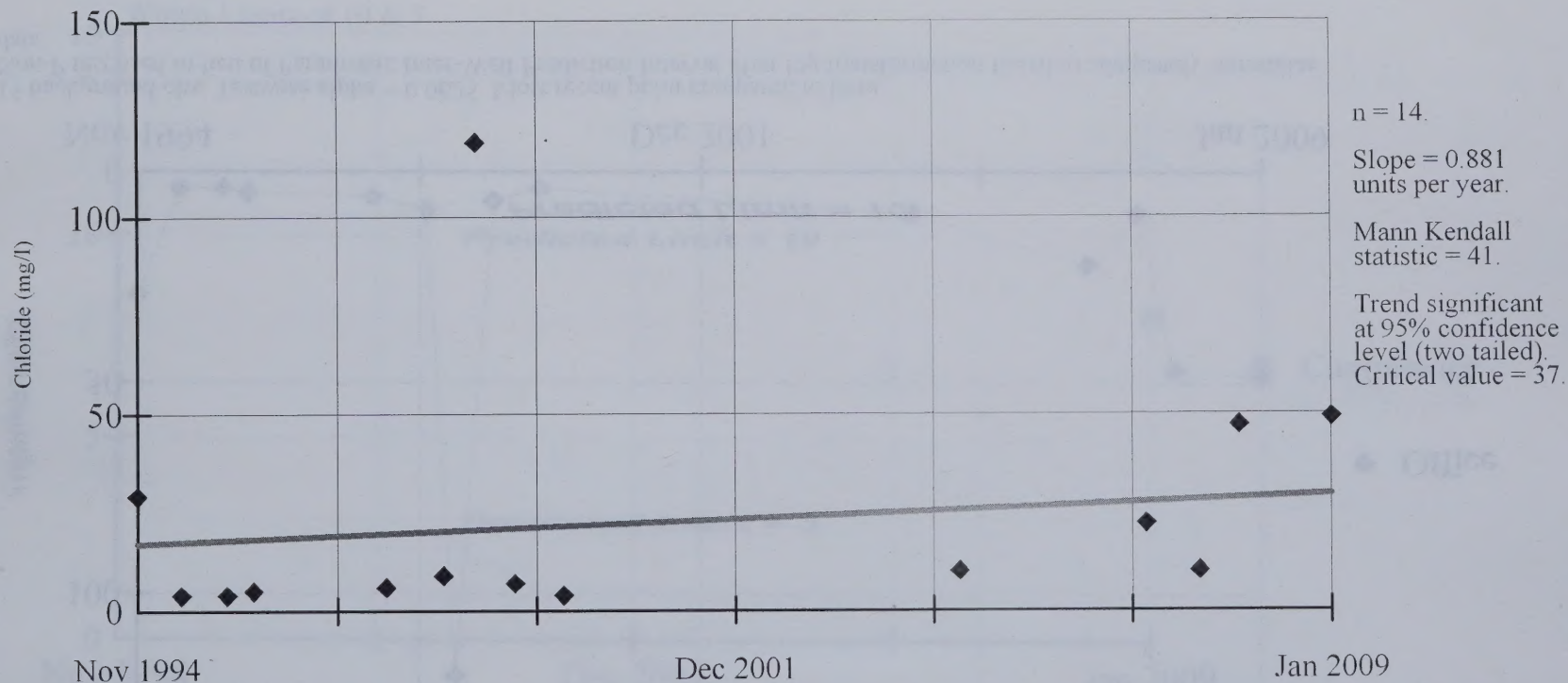
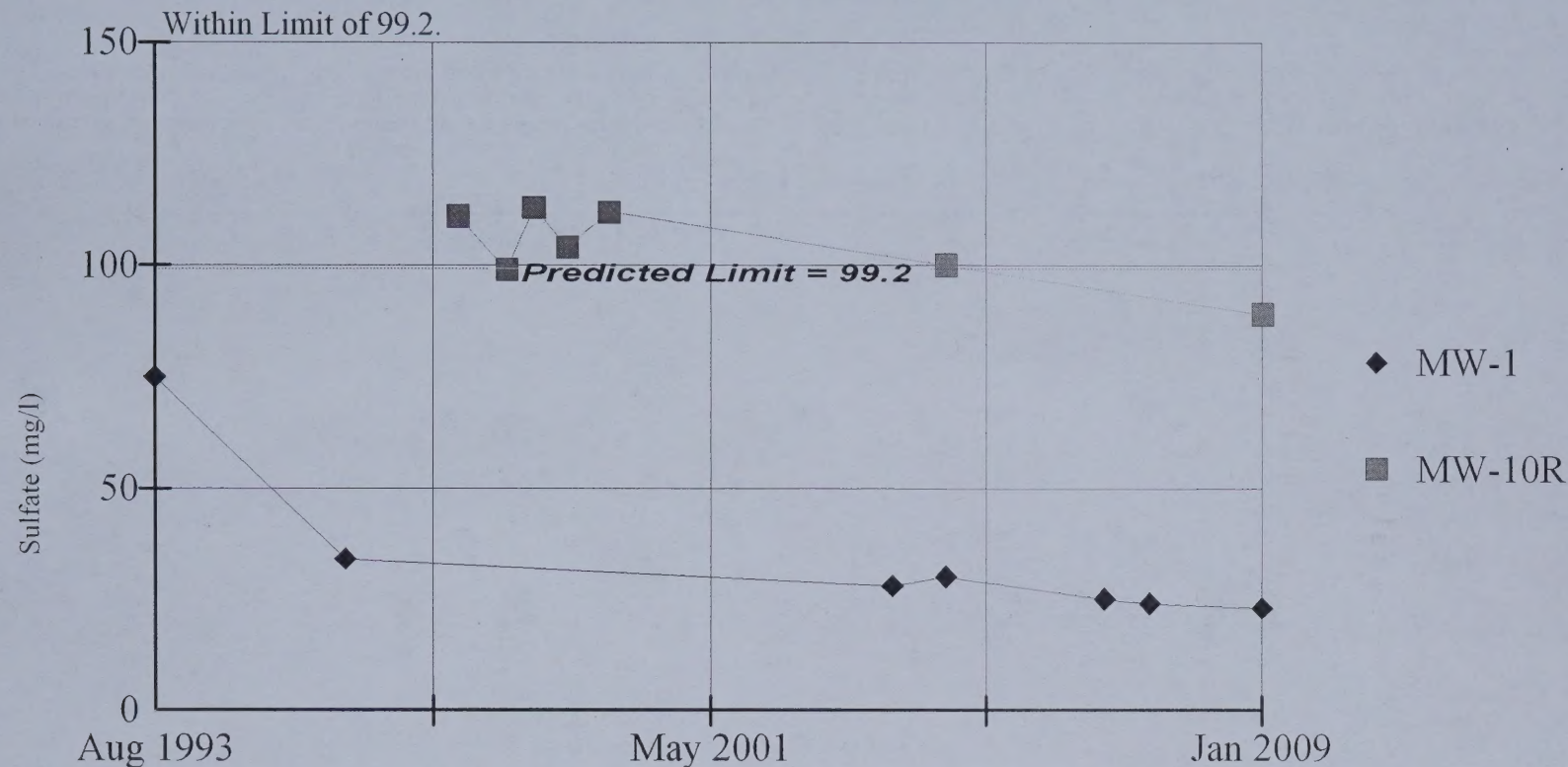


Figure F-10: Trend Analysis for Chloride in MW-OW

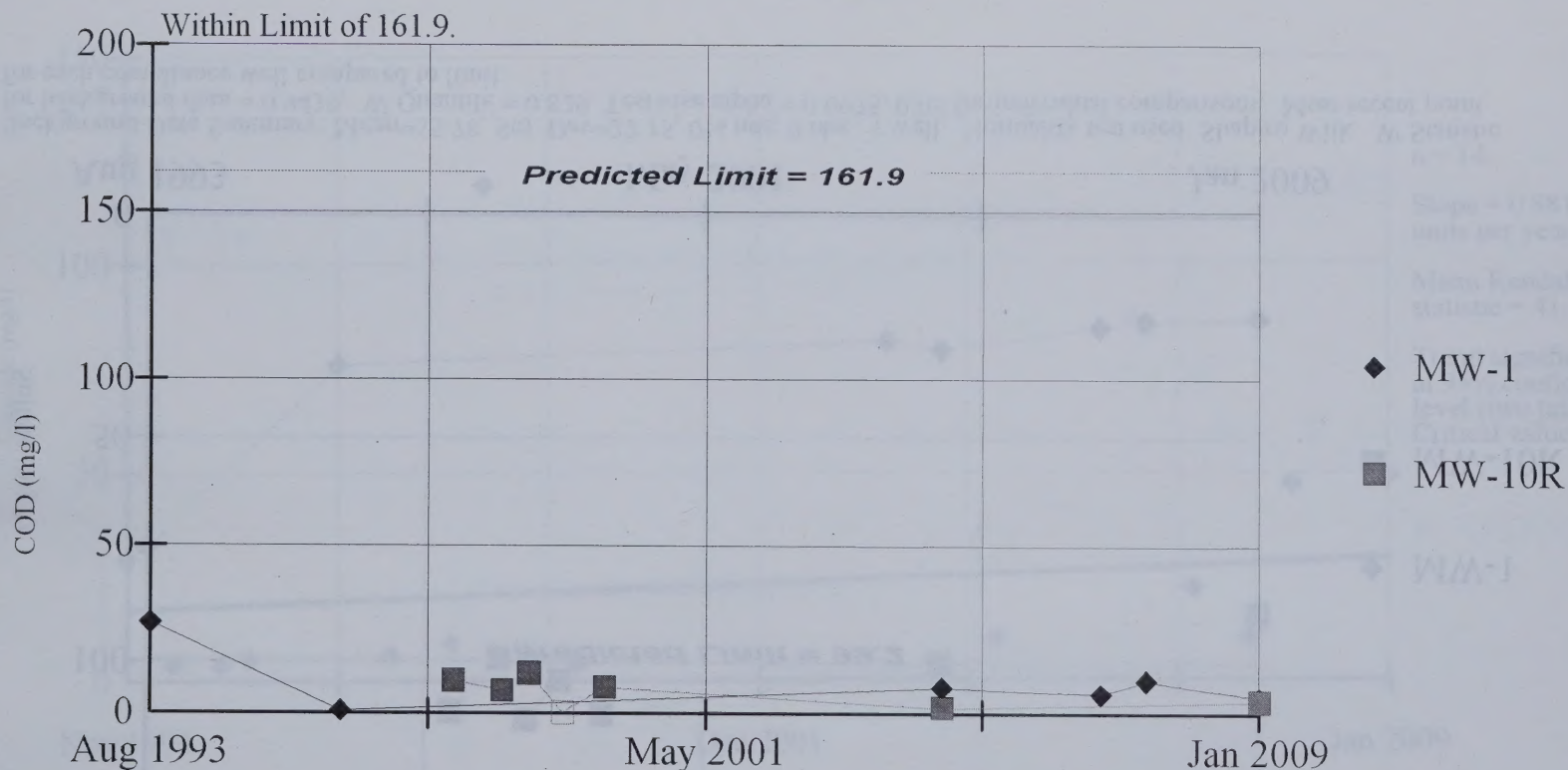
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=55.78, Std. Dev=22.15, 0% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9439, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-11: Prediction Interval Analysis for Sulfate in Shallow Wells

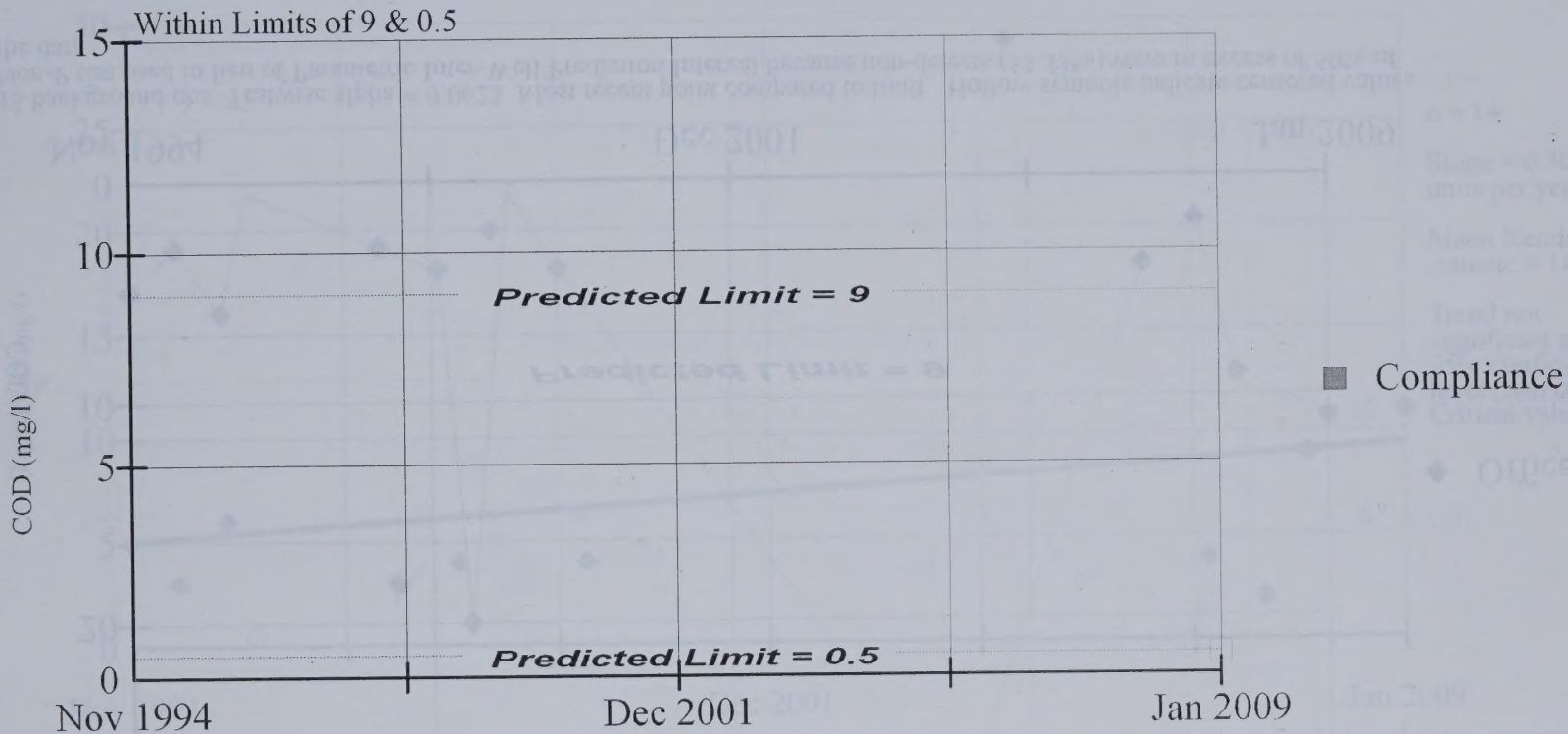
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: (based on log transformed data) Mean=1.843, Std. Dev=1.655, 11.11% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9606, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit. Hollow symbols indicate censored values.

Figure F-12: Prediction Interval Analysis for Chemical Oxygen Demand in Shallow Wells

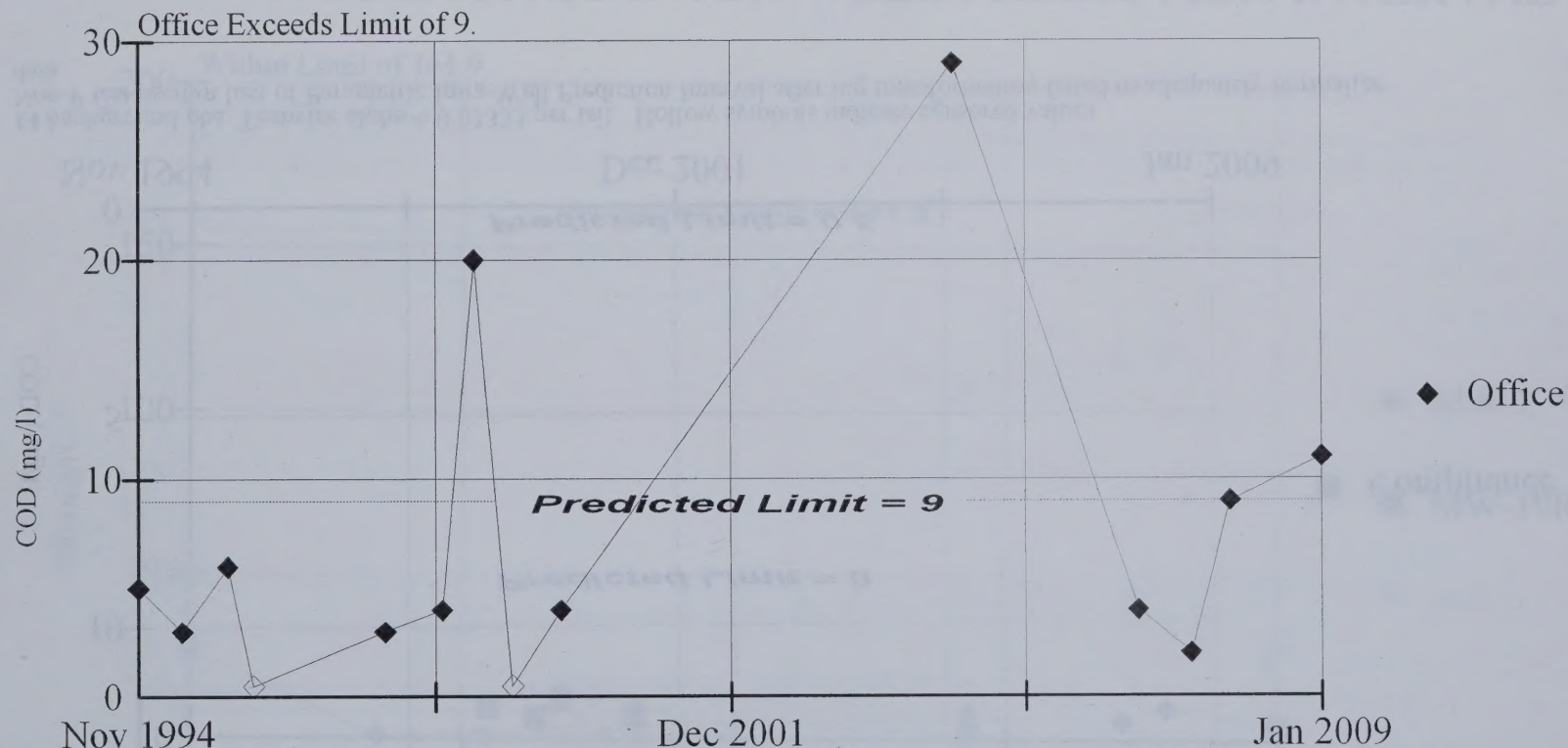
NP 2-TAILED INTRA-WELL PREDICTION INTERVAL House



14 background obs. Testwise alpha = 0.03333 per tail. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-13: Background Analysis for Chemical Oxygen Demand in MW-HW

NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



15 background obs. Testwise alpha = 0.0625 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Inter-Well Prediction Interval because non-detects (53.33%) were in excess of 50% of the data.

Figure F-14: Prediction Interval Analysis for Chemical Oxygen Demand in Deep Wells

SEN'S SLOPE ESTIMATOR Office

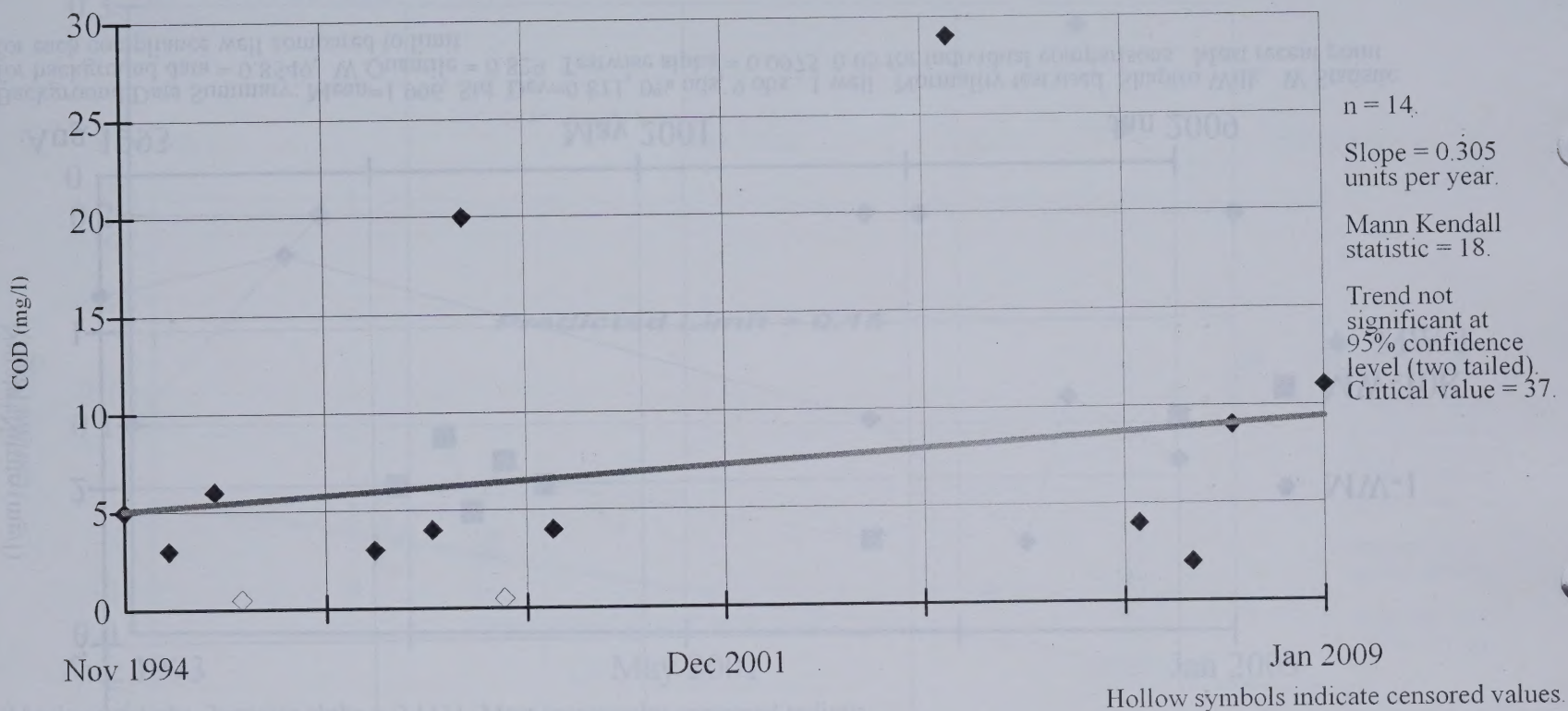
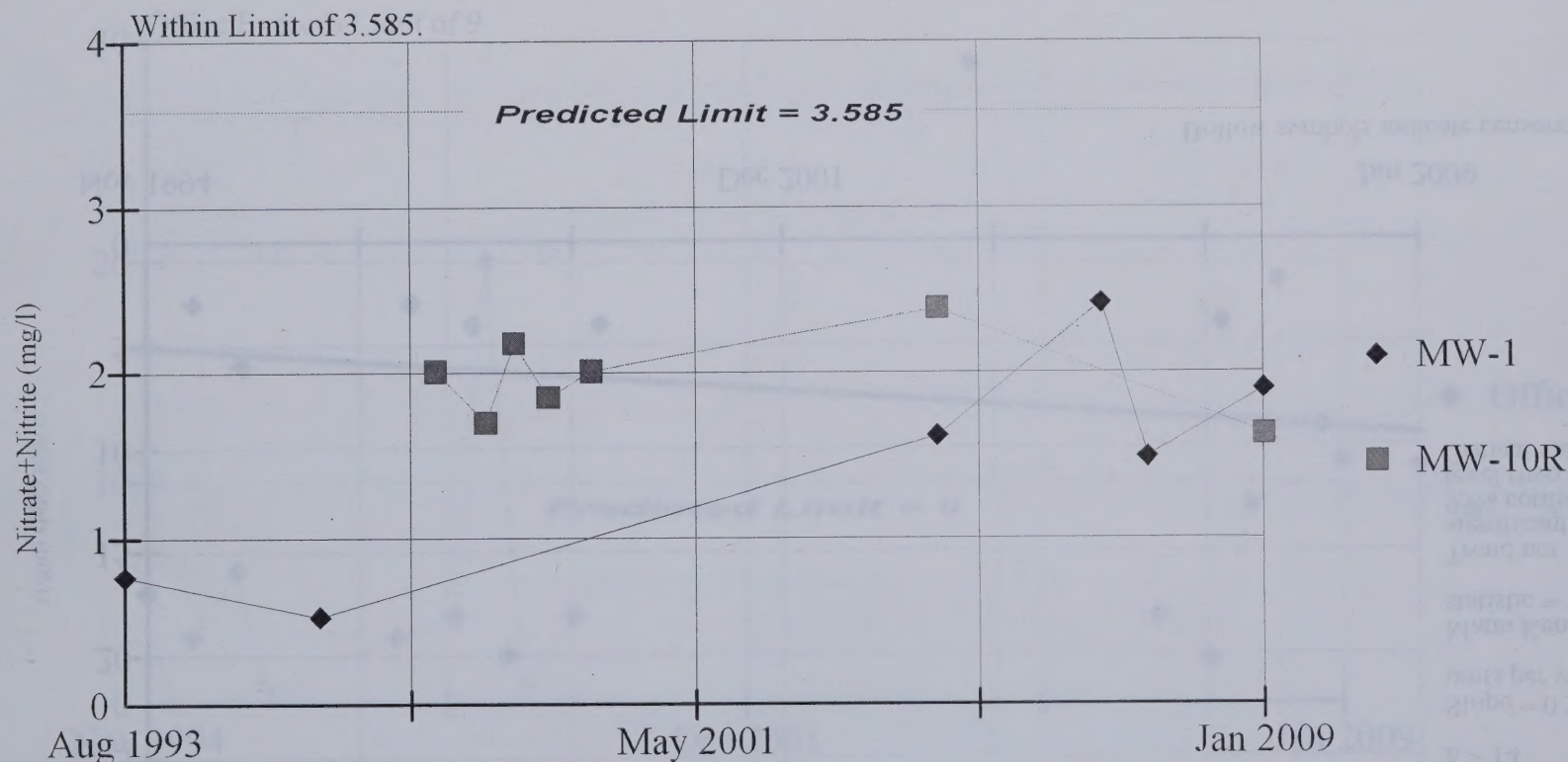


Figure F-15: Trend Analysis for Chemical Oxygen Demand in MW-OW

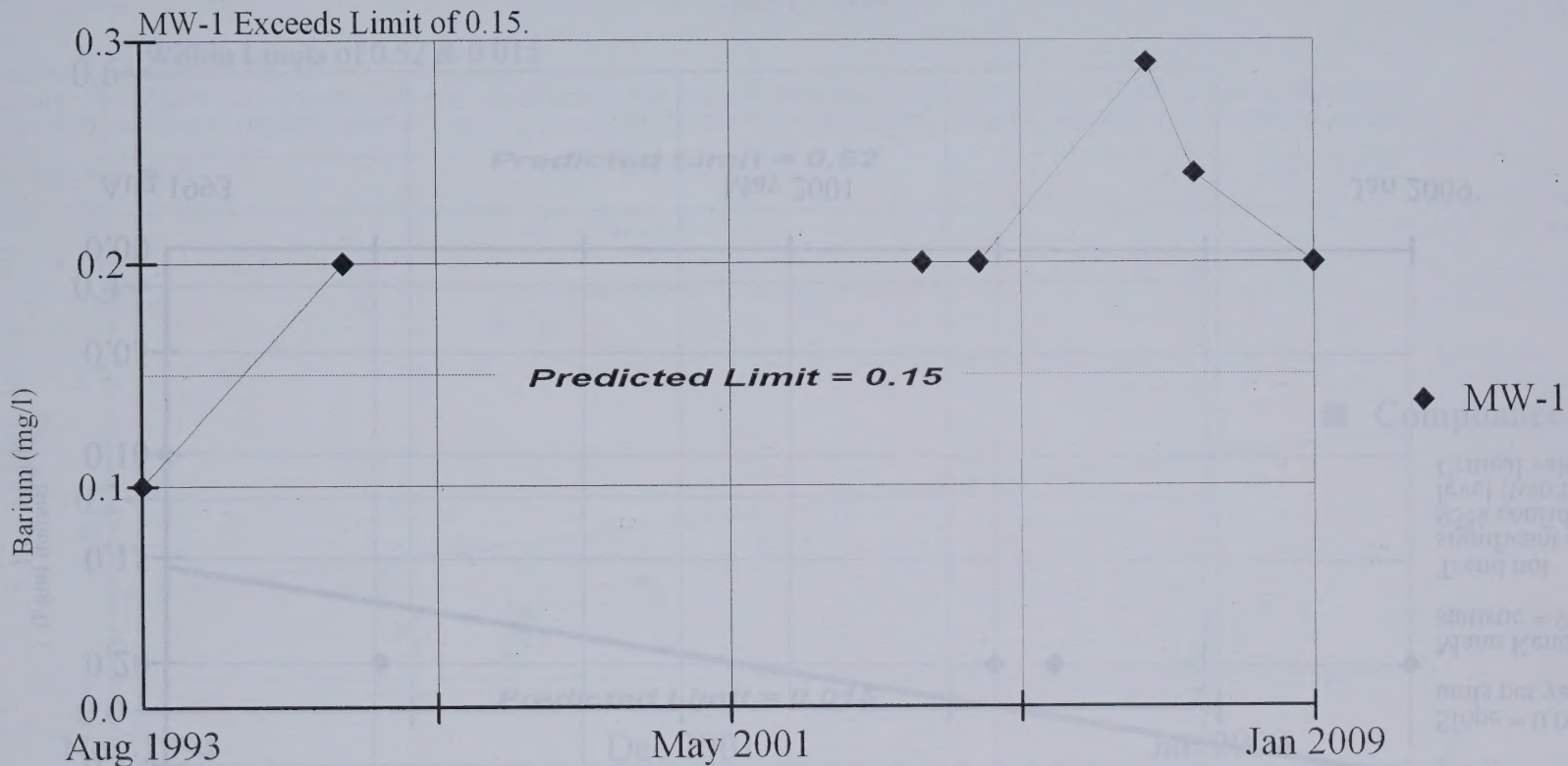
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=1.996, Std. Dev=0.811, 0% nds, 9 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.8549, W Quantile = 0.829. Testwise alpha = 0.0975, 0.05 for individual comparisons. Most recent point for each compliance well compared to limit.

Figure F-16: Prediction Interval Analysis for Nitrate + Nitrite in Shallow Wells

NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



8 background obs. Testwise alpha = 0.1111 Most recent point compared to limit.
Non-P test used in lieu of Parametric Inter-Well Prediction Interval after log transformation failed to adequately normalize data.

Figure F-17: Prediction Interval Analysis for Barium in Shallow Wells

SEN'S SLOPE ESTIMATOR MW-1

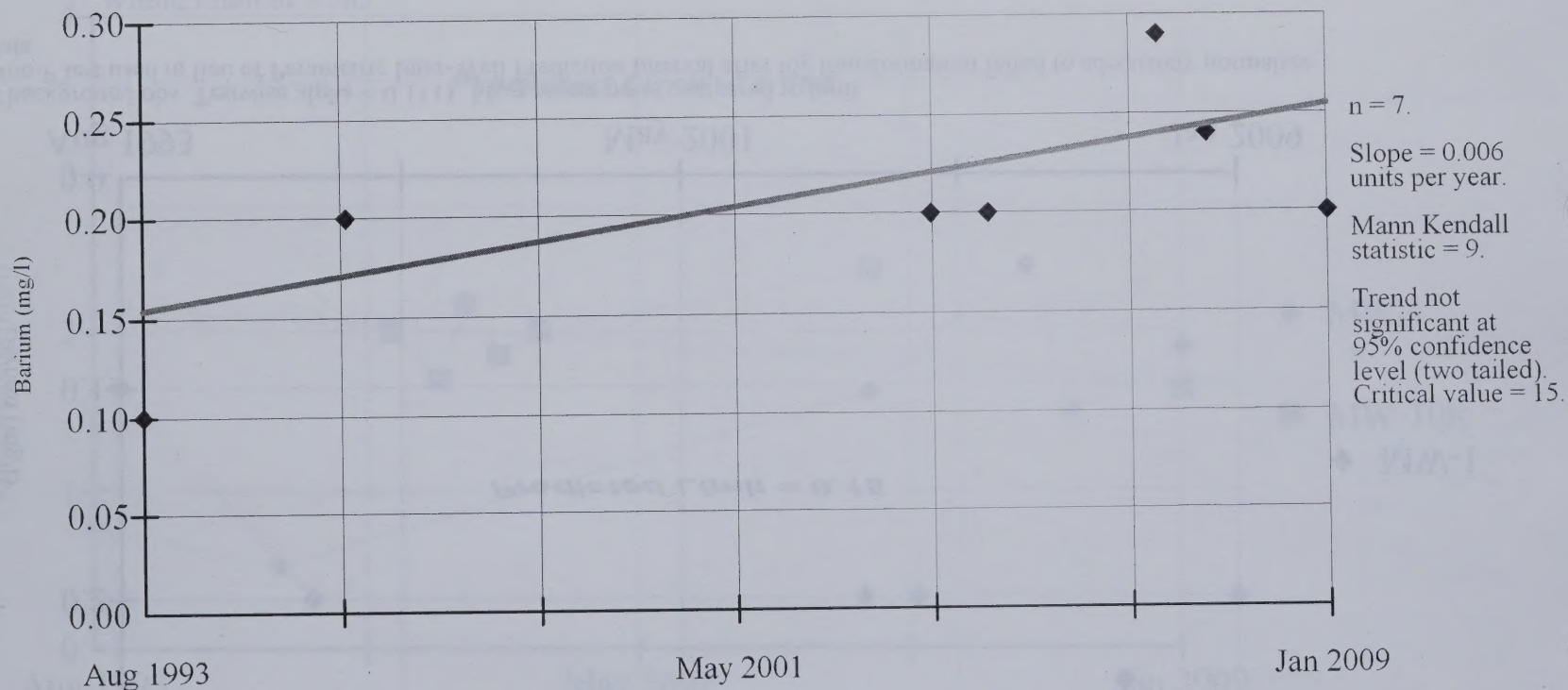
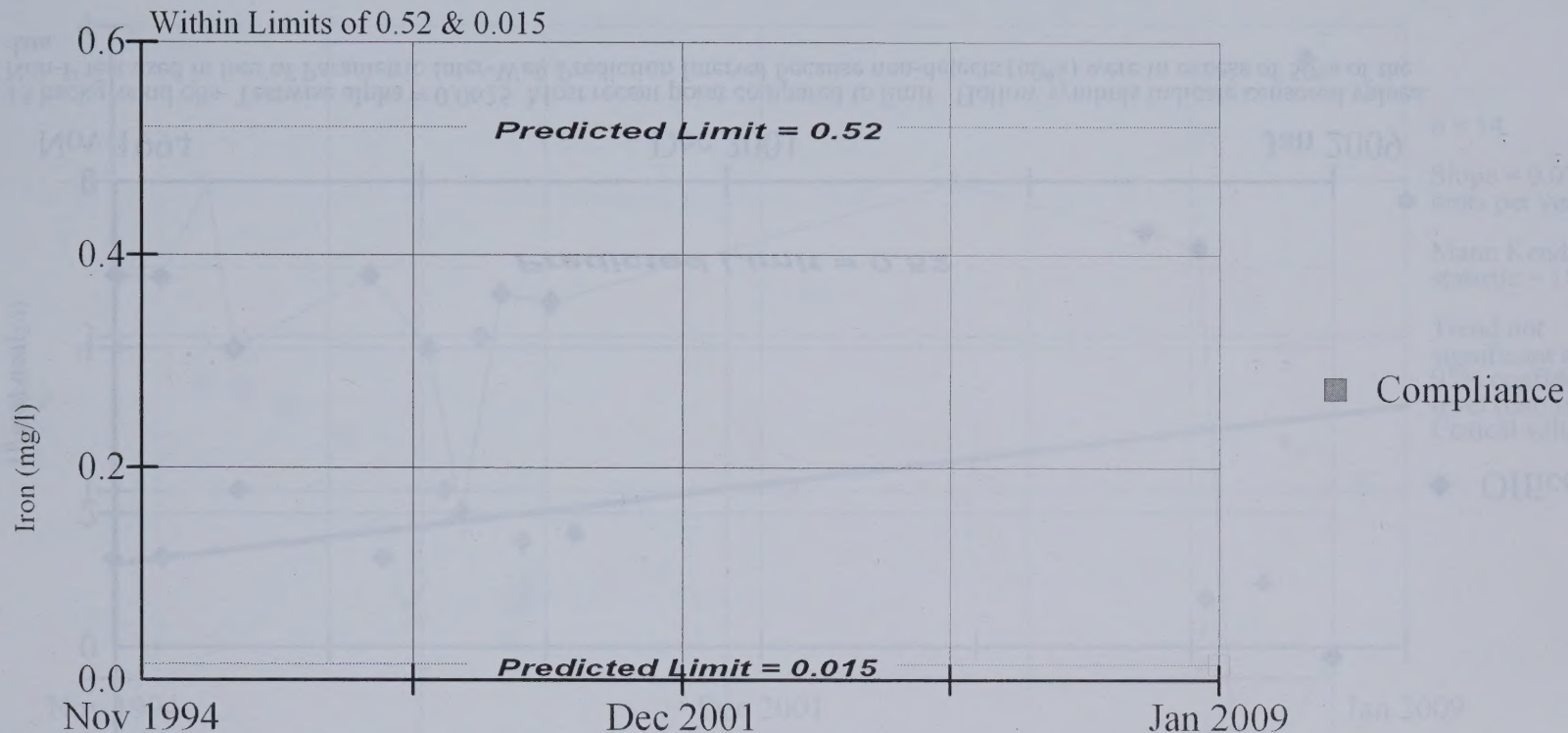


Figure F-18: Trend Analysis for Barium in Shallow Wells

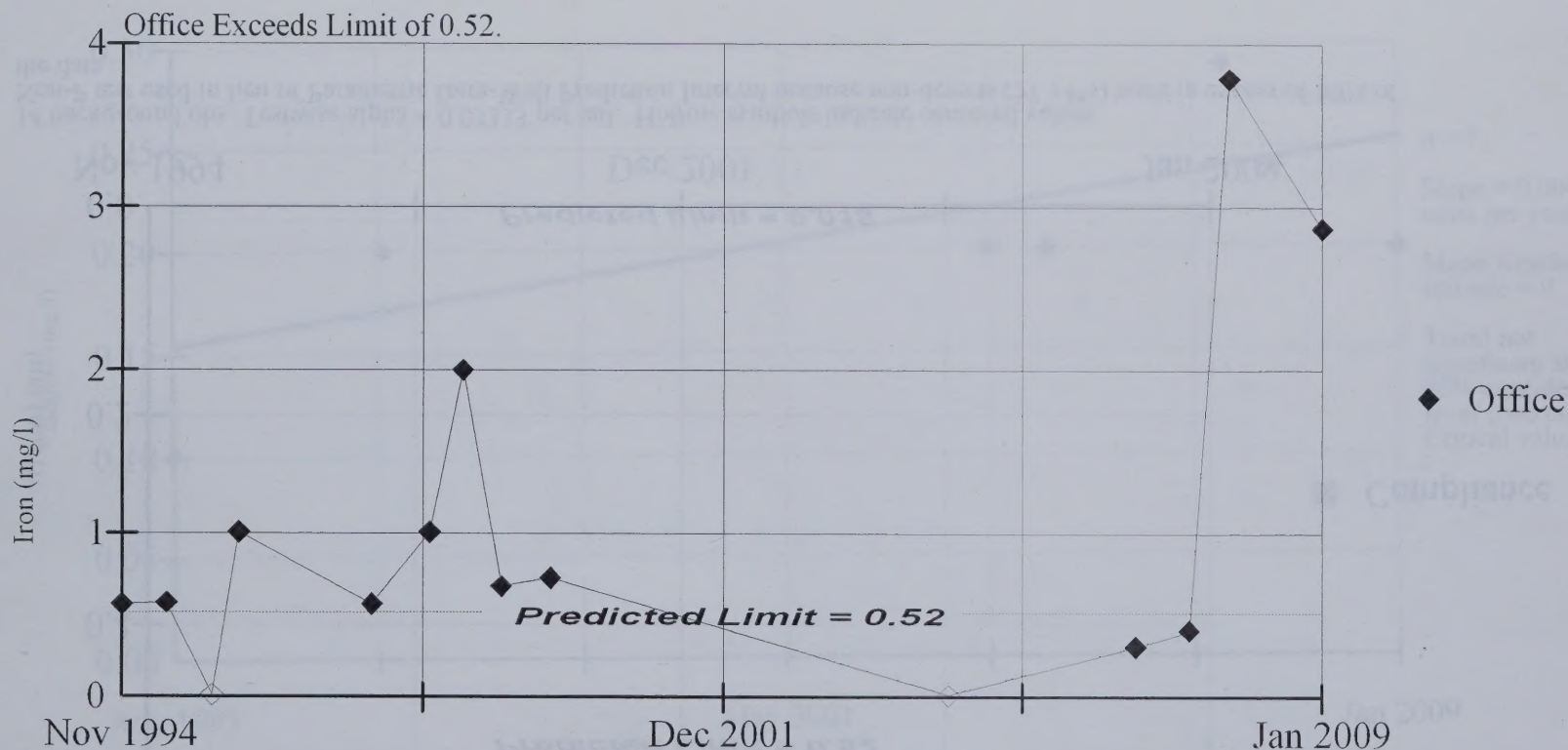
NP 2-TAILED INTRA-WELL PREDICTION INTERVAL House



14 background obs. Testwise alpha = 0.03333 per tail. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Interval because non-detects (57.14%) were in excess of 50% of the data.

Figure F-19: Background Analysis for Iron in MW-HW

NON-PARAMETRIC INTER-WELL PREDICTION INTERVAL



15 background obs. Testwise alpha = 0.0625 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Inter-Well Prediction Interval because non-detects (60%) were in excess of 50% of the data.

Figure F-20: Prediction Interval Analysis for Iron in Deep Wells

SEN'S SLOPE ESTIMATOR Office

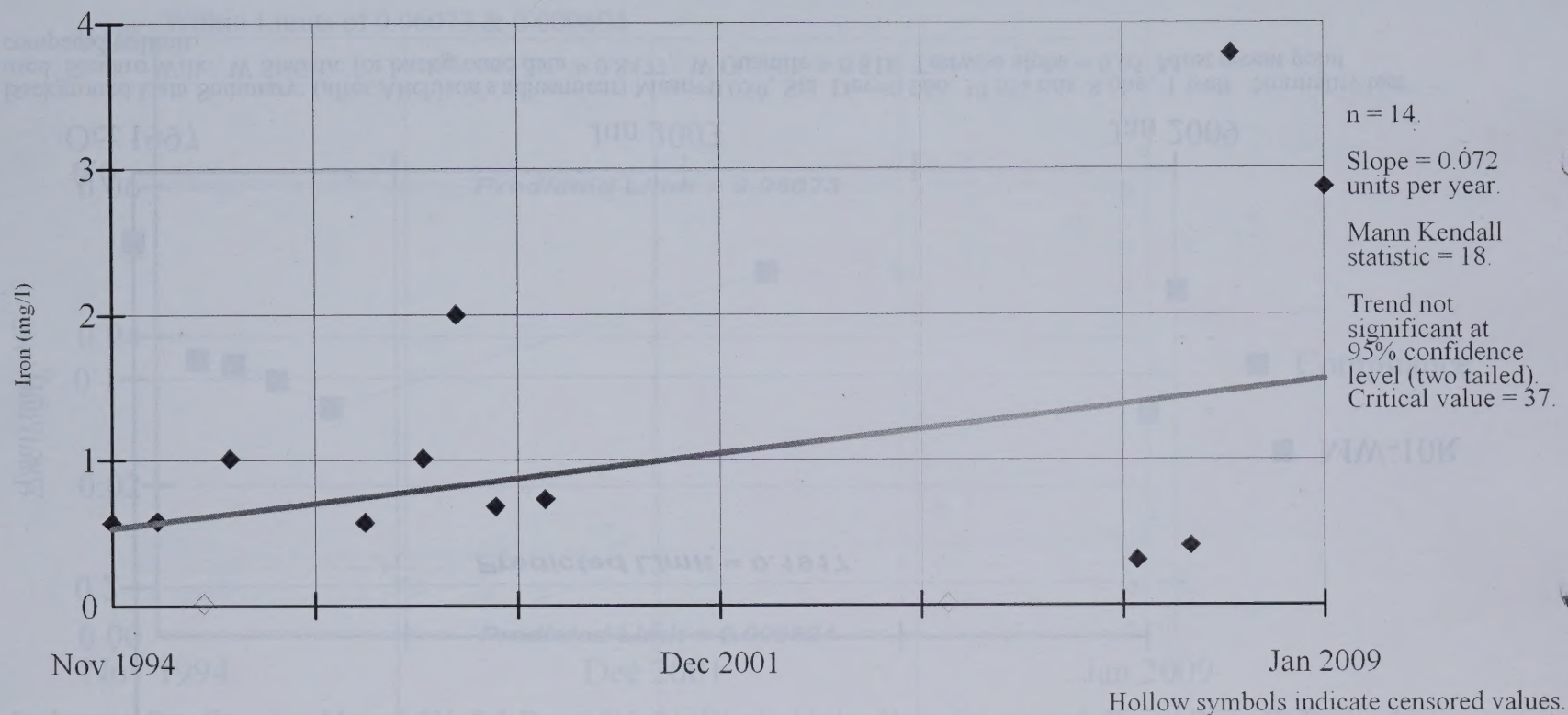
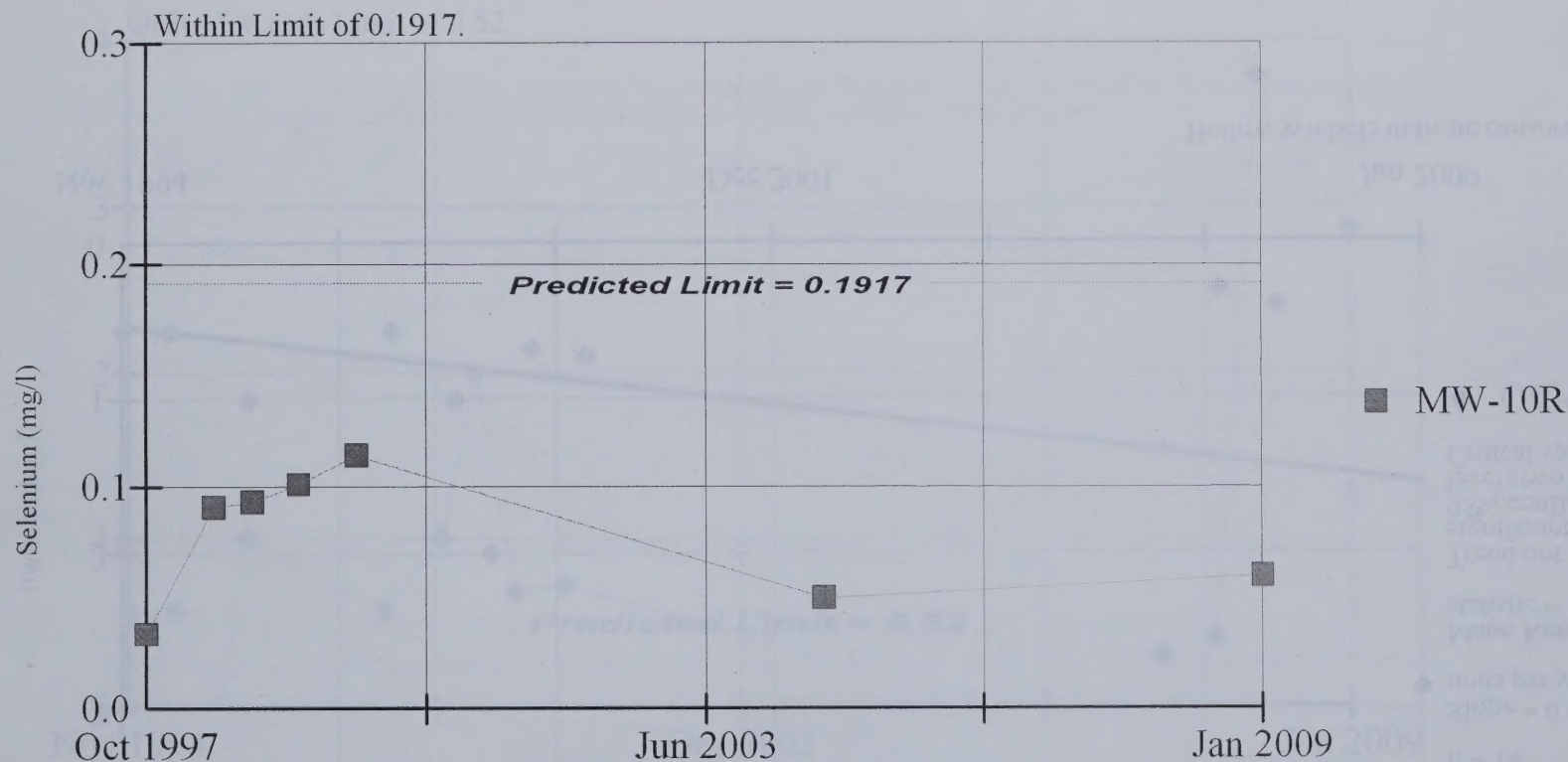


Figure F-21: Trend Analysis for Iron in MW-OW

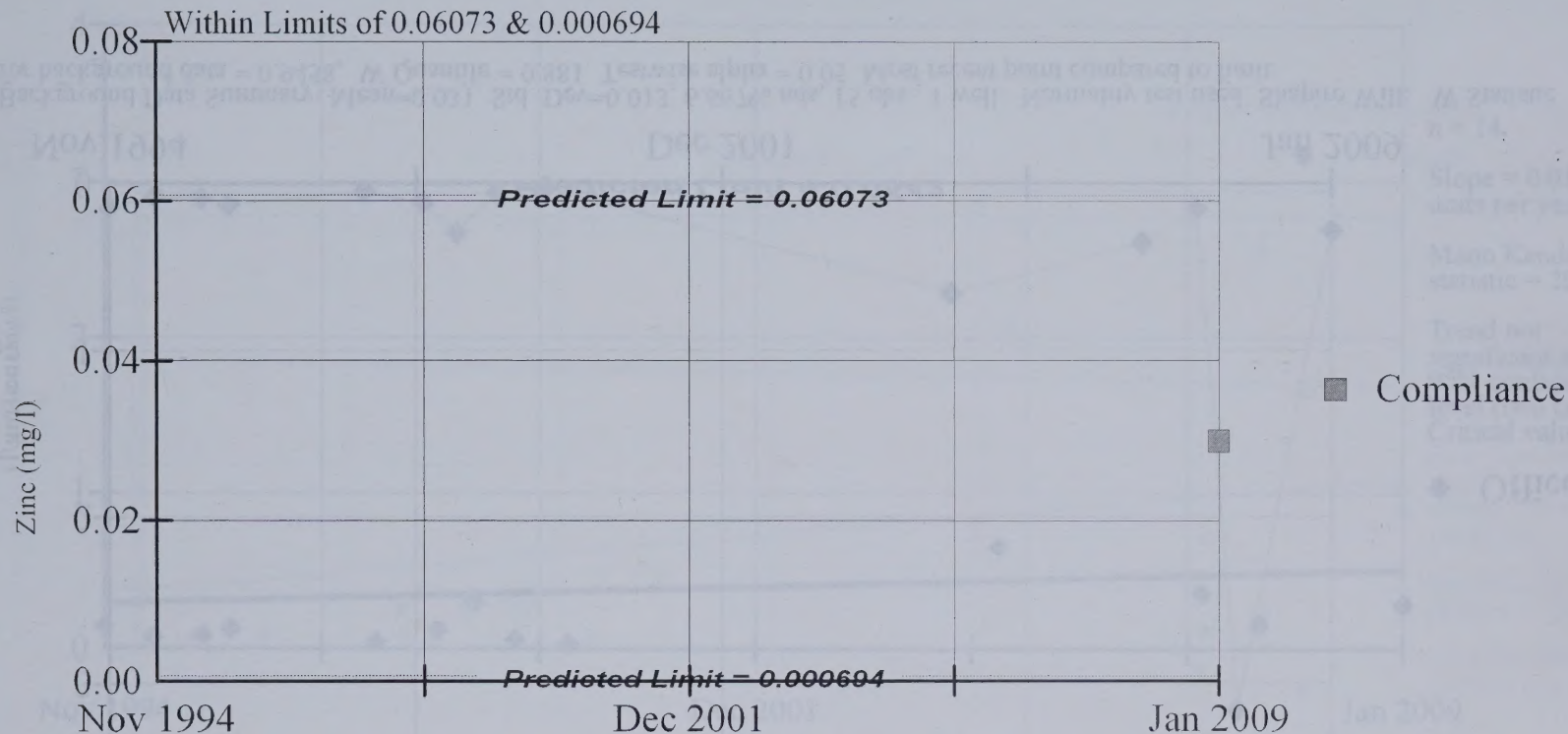
PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: (after Aitchison's adjustment) Mean=0.059, Std. Dev=0.066, 37.5% nds, 8 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.8477, W Quantile = 0.818. Testwise alpha = 0.05 Most recent point compared to limit.

Figure F-22: Prediction Interval Analysis for Selenium in Shallow Wells

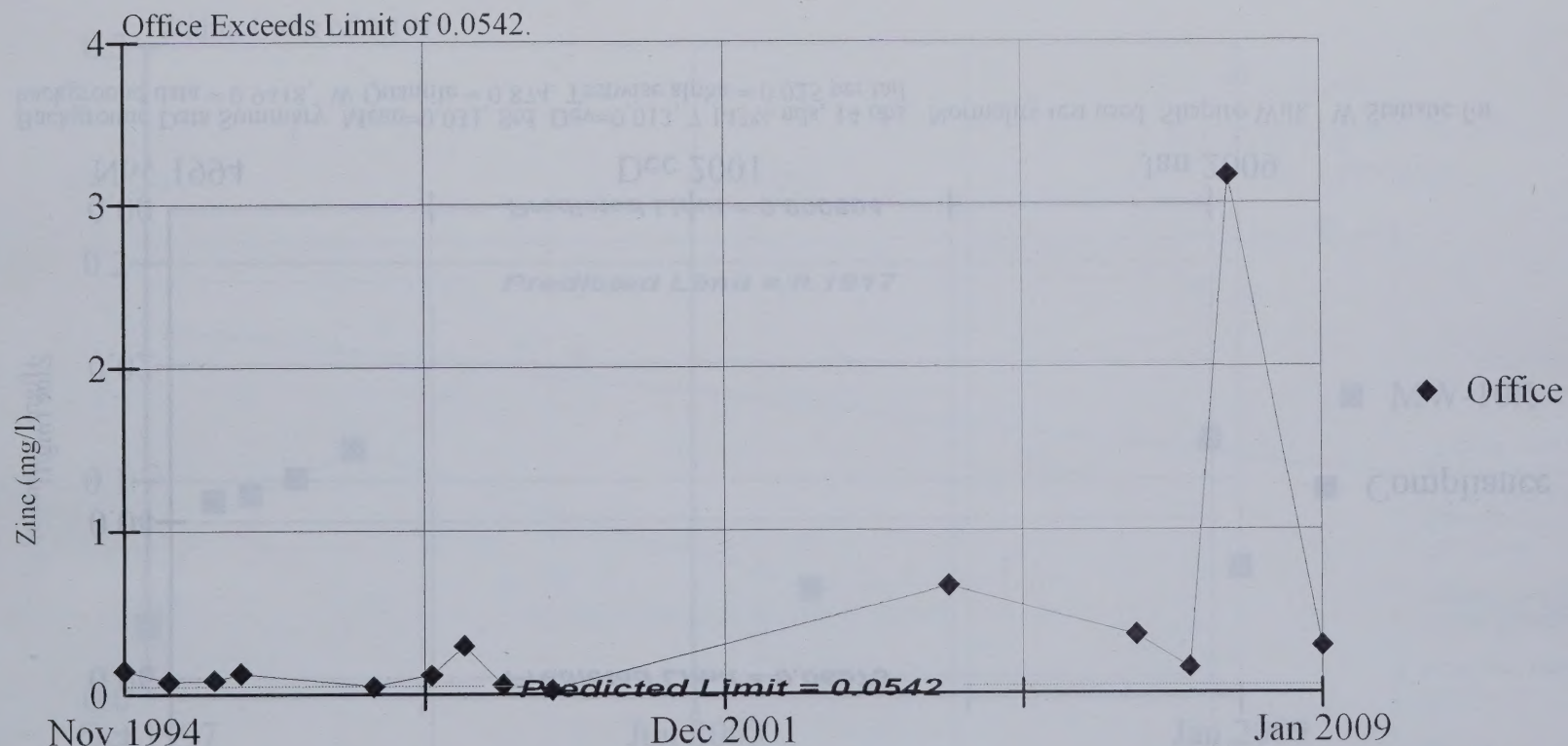
PARM. 2-TAILED INTRA-WELL PREDICTION INTERVAL House



Background Data Summary: Mean=0.031, Std. Dev=0.013, 7.143% nds, 14 obs. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9418, W Quantile = 0.874. Testwise alpha = 0.025 per tail.

Figure F-23: Background Analysis for Zinc in MW-HW

PARAMETRIC INTER-WELL PREDICTION INTERVAL



Background Data Summary: Mean=0.031, Std. Dev=0.013, 6.667% nds, 15 obs., 1 well. Normality test used: Shapiro Wilk. W Statistic for background data = 0.9458, W Quantile = 0.881. Testwise alpha = 0.05 Most recent point compared to limit.

Figure F-24: Prediction Interval Analysis for Zinc in Deep Wells

SEN'S SLOPE ESTIMATOR Office

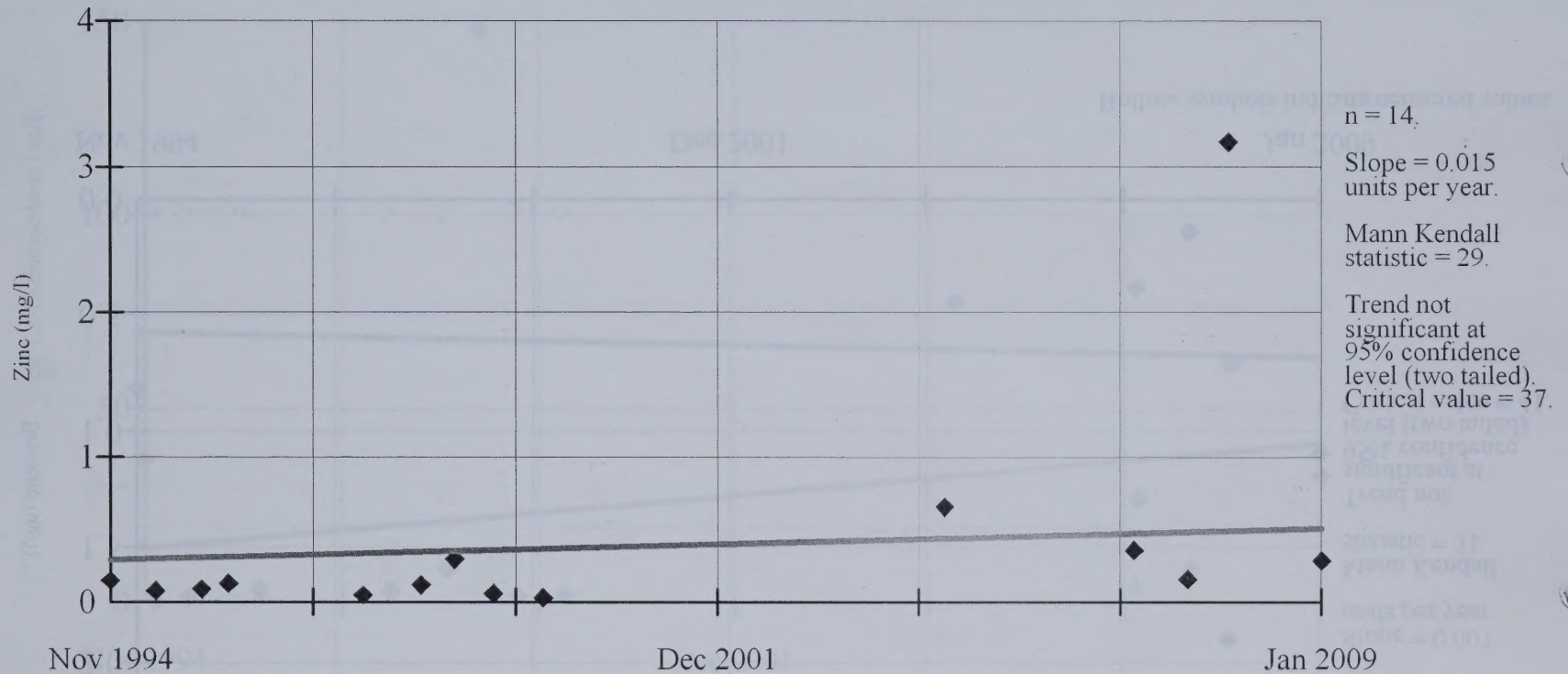


Figure F-25: Trend Analysis for Zinc in MW-OW

Figure F-26: Trend Analysis for Benzene in MW-OW

SEN'S SLOPE ESTIMATOR Office

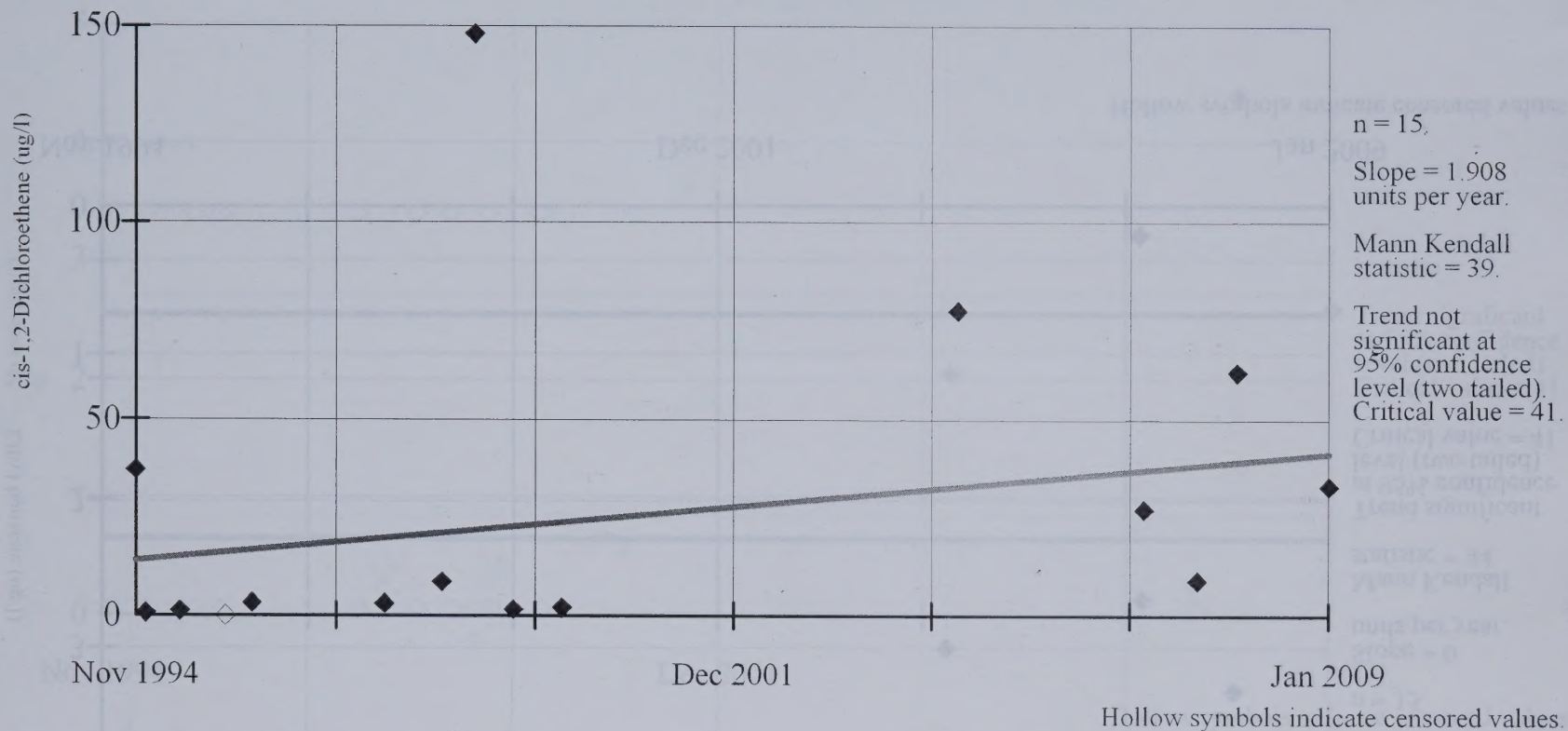


Figure F-27: Trend Analysis for cis-1,2-Dichloroethene in MW-OW

Ethyl benzene ($\mu\text{g/l}$)

n = 15.
 Slope = 0
 units per year.
 Mann Kendall
 statistic = 44.
 Trend significant
 at 95% confidence
 level (two tailed).
 Critical value = 41.

Nov 1994 Dec 2001 Jan 2009

Hollow symbols indicate censored values.

Figure F-28: Trend Analysis for Ethyl benzene in MW-OW

SEN'S SLOPE ESTIMATOR Office

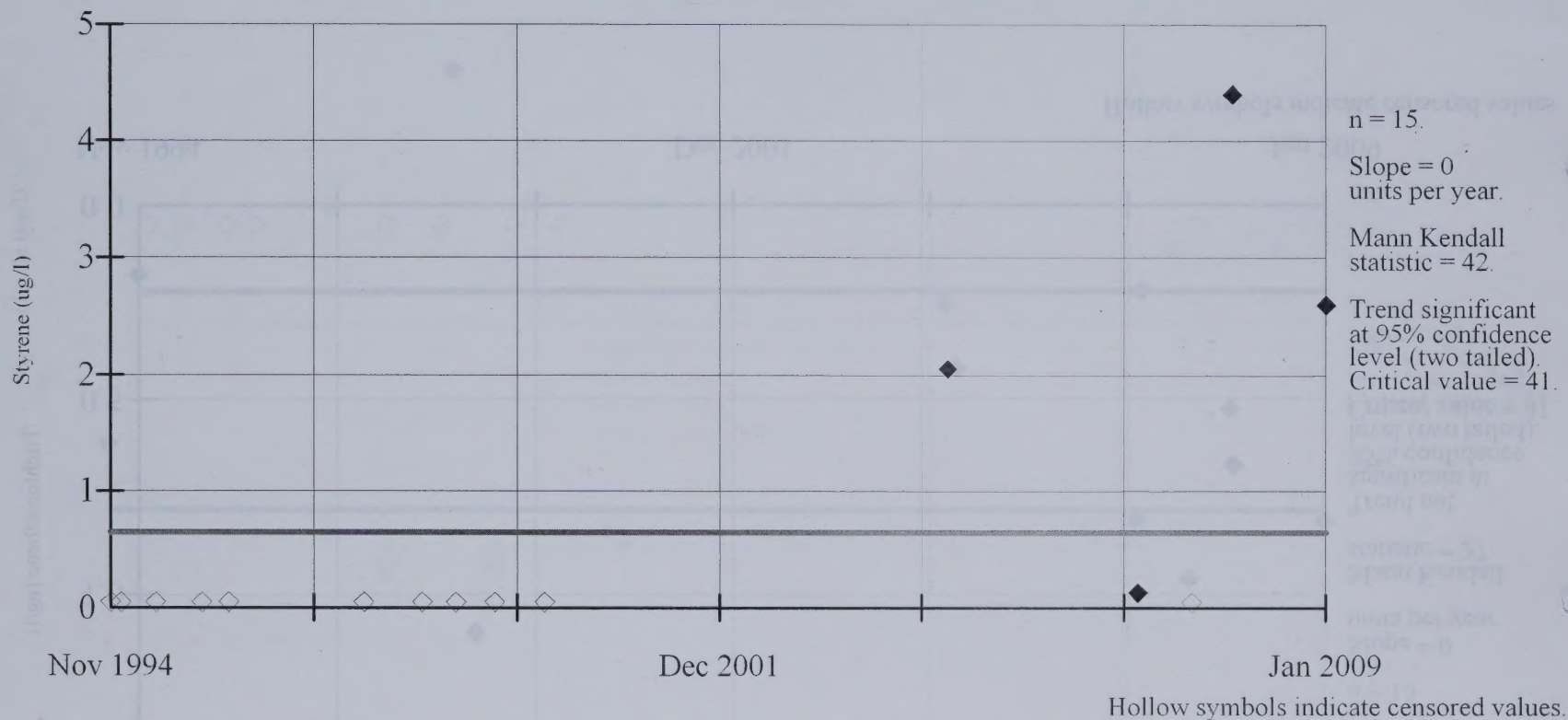


Figure F-29: Trend Analysis for Styrene in MW-OW

Trichloroethene ($\mu\text{g/l}$)

Nov 1994 Dec 2001 Jan 2009

Hollow symbols indicate censored values

$n = 15$.
 Slope = 0
 units per year.
 Mann Kendall
 statistic = 27.
 Trend not
 significant at
 95% confidence
 level (two tailed).
 Critical value = 41.

Figure F-30: Trend Analysis for Trichloroethene in MW-OW

Vinyl chloride (ug/l)
 5
 4
 3
 2
 1
 0

Nov 1994 Dec 2001 Jan 2009

n = 15.
 Slope = 0 units per year.
 Mann Kendall statistic = 27.
 Trend not significant at 95% confidence level (two tailed).
 Critical value = 41.

Hollow symbols indicate censored values.

Figure F-31: Trend Analysis for Vinyl chloride in MW-OW

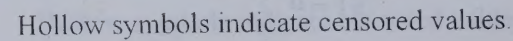


Figure F-32: Trend Analysis for Total Xylenes in MW-OW

****INVOICE AND REPORT****

RECEIVED

FEB 11 2009

**DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU**

MT DEQ
Martin VanOort
PO Box 200901
Helena MT 59620-0901



ANALYTICAL SUMMARY REPORT

February 09, 2009

Martin VanOort

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09010168

Project Name: Mister M Landfill

Energy Laboratories Inc received the following 6 samples for MT DEQ on 1/22/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09010168-001	MrM-MW-OW1	01/21/09 16:48	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-002	MrM-MW-10	01/22/09 9:15	01/22/09	Aqueous	Same As Above
H09010168-003	MrM-MW-1	01/22/09 9:36	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-004	MrM-MW-EB	01/22/09 10:40	01/22/09	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Total Cyanide Digestion Chemical Oxygen Demand Conductivity Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 8260-Volatile Organic Comp, 40 CFR Part 258 App I
H09010168-005	MrM-MW-HW	01/21/09 13:15	01/22/09	Aqueous	Same As Above
H09010168-006	Trip Blank TB111308(mc)(b)shp0237	01/21/09 13:15	01/22/09	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.



ANALYTICAL SUMMARY REPORT

February 08, 2008

Client Name: MT DCO

MT DCO

PO Box 20000

Heater, MT 58001-0001

Workorder No.: 40801018

Project Name: Heater MT Heater

Energy Laboratories has received the following 8 samples for MT DCO on 1/23/08 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
40801018-001	MT-DEN-CV1	01/23/08 10:48	01/23/08	Aqueous	Metals by ICP/OES, Dissolved Cyanide, Total Metals Digestion Total Cyanide Digestion Chemical Oxygen Demand Conductivity Ammonia by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 5000 Volatile Organic Comp. 40 CFR Part 505 App 1
40801018-002	MT-DEN-CV2	01/23/08 10:48	01/23/08	Aqueous	Same As Above
40801018-003	MT-DEN-CV3	01/23/08 10:48	01/23/08	Aqueous	Metals by ICP/OES, Dissolved Cyanide, Total Metals Digestion Total Cyanide Digestion Chemical Oxygen Demand Conductivity Ammonia by Ion Chromatography Nitrogen, Nitrate + Nitrite pH 5000 Volatile Organic Comp. 40 CFR Part 505 App 1
40801018-004	MT-DEN-CV4	01/23/08 10:48	01/23/08	Aqueous	Same As Above
40801018-005	MT-DEN-CV5	01/23/08 10:48	01/23/08	Aqueous	Same As Above
40801018-006	MT-DEN-CV6	01/23/08 10:48	01/23/08	Top Soil	5000 Volatile Organic Comp. 40 CFR Part 505 App 1

LABORATORY LOCATION

- MT - Energy Laboratories, Inc. - Denver, MT, POA 59001
- CO - Energy Laboratories, Inc. - Denver, CO, POA 80202
- IL - Energy Laboratories, Inc. - Chicago, IL, POA 60606
- IN - Energy Laboratories, Inc. - Indianapolis, IN, POA 46204
- MI - Energy Laboratories, Inc. - Detroit, MI, POA 48202
- NE - Energy Laboratories, Inc. - Omaha, NE, POA 68102
- TX - Energy Laboratories, Inc. - Houston, TX, POA 77001

DISCLAIMER AND NOTES

Guarantee of sample analysis is an analytical laboratory only. It is not a guarantee of the quality of the sample or the quality of the data. The laboratory is not responsible for the quality of the sample or the quality of the data. The laboratory is not responsible for the quality of the sample or the quality of the data. The laboratory is not responsible for the quality of the sample or the quality of the data.



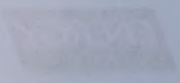
ANALYTICAL SUMMARY REPORT

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



ANALYTICAL SUMMARY REPORT

LABORATORY NAME: [REDACTED]

SAMPLE TEMPERATURE COMPLIANCE: 70C (15C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples may be found elevated immediately after collection and be considered acceptable if there is evidence that the sample was properly stored.

For additional information regarding this report, please contact your local analytical division. For additional information regarding this report, please contact your local analytical division. For additional information regarding this report, please contact your local analytical division.

[Handwritten Signature]

Report Approved By: [REDACTED]



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	01/23/09 14:29 / hm
Conductivity	678	umhos/cm		1		A2510 B	01/23/09 14:49 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:53 / eli-b1
Chloride	49	mg/L		1		E300.0	01/26/09 15:02 / hm
Sulfate	ND	mg/L		1		E300.0	01/26/09 15:02 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	11	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 12:46 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:18 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:18 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:45 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:18 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:45 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:45 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Iron	2.87	mg/L		0.03		E200.7	01/26/09 19:45 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:18 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:18 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:18 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:45 / eli-b
Zinc	0.29	mg/L		0.01		E200.8	01/30/09 04:18 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Benzene	1.1	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Report Date: 02/07/13
Collection Date: 01/21/13
Data Review: 01/22/13
Matrix: Aqueous

Client: MT DEP
Project: Water Quality
Lab ID: H010702-001
Client Sample ID: MAMM-CW1

Analysis	Result	Unit	Conc. - µg/L	Method	Analysis Date
PHYSICAL PROPERTIES					
Oil	1.8	µg/L	0.1	4100-HB	01/22/13 14:28:10
Conductivity	875	µmhos/cm	7	A2010-5	01/22/13 14:28:10
INORGANICS					
Chloride Total	163	mg/L	0.009	Relaxo-100	01/22/13 15:02:10
Chloride	96	mg/L	7	E2013	01/22/13 15:02:10
Sulfate	163	mg/L	7	E2010	01/22/13 15:02:10
AMPHIPHILIC ORGANICS					
Organic Detergent Chemicals (ODC)	11	µg/L	7	E4104	01/22/13 15:02:10
NUTRIENTS					
Nitrogen, Ammonia-N	163	µg/L	0.02	E2013	01/22/13 15:02:10
METALS, DISSOLVED					
Aluminum	163	µg/L	0.02	E2013	01/22/13 15:02:10
Antimony	163	µg/L	0.005	E2013	01/22/13 15:02:10
Barium	163	µg/L	0.1	E2013	01/22/13 15:02:10
Boron	163	µg/L	0.005	E2013	01/22/13 15:02:10
Bromine	163	µg/L	0.005	E2013	01/22/13 15:02:10
Calcium	163	µg/L	0.005	E2013	01/22/13 15:02:10
Chromium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Cobalt	163	µg/L	0.01	E2013	01/22/13 15:02:10
Copper	163	µg/L	0.01	E2013	01/22/13 15:02:10
Iron	163	µg/L	0.01	E2013	01/22/13 15:02:10
Lead	163	µg/L	0.01	E2013	01/22/13 15:02:10
Manganese	163	µg/L	0.005	E2013	01/22/13 15:02:10
Mercury	163	µg/L	0.005	E2013	01/22/13 15:02:10
Molybdenum	163	µg/L	0.01	E2013	01/22/13 15:02:10
Nickel	163	µg/L	0.005	E2013	01/22/13 15:02:10
Silver	163	µg/L	0.005	E2013	01/22/13 15:02:10
Selenium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Sodium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Strontium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Titanium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Vanadium	163	µg/L	0.01	E2013	01/22/13 15:02:10
Zinc	163	µg/L	0.01	E2013	01/22/13 15:02:10
VOLEATILE ORGANIC COMPOUNDS					
Acetone	163	µg/L	20	SW84601	01/22/13 15:02:10
Acrylonitrile	163	µg/L	20	SW84601	01/22/13 15:02:10
Benzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Bromobenzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Bromochlorobenzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Bromodichlorobenzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Bromotrichlorobenzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Chlorobenzene	163	µg/L	1.0	SW84601	01/22/13 15:02:10
Chloroethane	163	µg/L	1.0	SW84601	01/22/13 15:02:10

Notes: µg/L - Analyte reporting unit.
µg/L - Quality control limit.
µg/L - Maximum concentration limit.
µg/L - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
cis-1,2-Dichloroethene	33	ug/L		10		SW8260B	01/28/09 15:52 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Ethylbenzene	3.9	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 16:22 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Styrene	2.6	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Trichloroethene	0.26	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Vinyl chloride	0.73	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
m+p-Xylenes	0.61	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 16:22 / abb
Xylenes, Total	0.61	ug/L	J	1.0		SW8260B	01/28/09 16:22 / abb
Surr: 1,2-Dichloroethane-d4	96.0	%REC		70-130		SW8260B	01/28/09 16:22 / abb

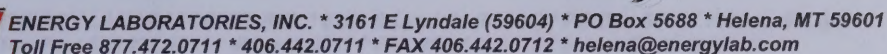
Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-001
Client Sample ID: MrM-MW-OW1

Report Date: 02/09/09
Collection Date: 01/21/09 16:48
DateReceived: 01/22/09
Matrix: Aqueous

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-002
Client Sample ID: MrM-MW-10 *2*

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.8	s.u.		0.1		A4500-H B	01/23/09 14:31 / hm
Conductivity	1080	umhos/cm		1		A2510 B	01/23/09 14:51 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:54 / eli-b1
Chloride	17	mg/L		1		E300.0	01/26/09 16:00 / hm
Sulfate	89	mg/L		1		E300.0	01/26/09 16:00 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	4	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.63	mg/L		0.05		E353.2	01/29/09 12:48 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:25 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:25 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:53 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:25 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:53 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:53 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 19:53 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:25 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
Selenium	0.060	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:25 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:25 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:53 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:25 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

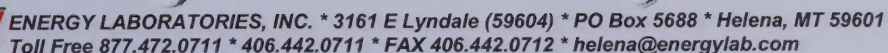
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-002
Client Sample ID: MrM-MW-10 R

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 14:20 / abb
Surr: 1,2-Dichloroethane-d4	109	%REC		70-130		SW8260B	01/28/09 14:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-002
Client Sample ID: MrM-MW-10 B

Report Date: 02/09/09
Collection Date: 01/22/09 09:15
DateReceived: 01/22/09
Matrix: Aqueous

[illegible]

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-003
Client Sample ID: MrM-MW-1

Report Date: 02/09/09
Collection Date: 01/22/09 09:36
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	01/23/09 14:32 / hm
Conductivity	805	umhos/cm		1		A2510 B	01/23/09 14:52 / hm
INORGANICS							
Chloride	19	mg/L		1		E300.0	01/26/09 16:20 / hm
Sulfate	23	mg/L		1		E300.0	01/26/09 16:20 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	5	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	1.90	mg/L		0.05		E353.2	01/29/09 13:02 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:33 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Barium	0.2	mg/L		0.1		E200.8	01/30/09 04:33 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 19:57 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:33 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 19:57 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 19:57 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 19:57 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:33 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:33 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:33 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 19:57 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:33 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

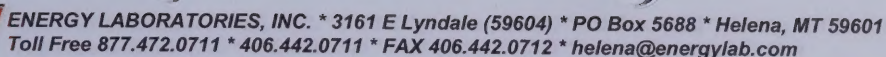
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-003
Client Sample ID: MrM-MW-1

Report Date: 02/09/09
Collection Date: 01/22/09 09:36
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 14:50 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 14:50 / abb
Surr: 1,2-Dichloroethane-d4	103	%REC		70-130		SW8260B	01/28/09 14:50 / abb
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	01/28/09 14:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-003
Client Sample ID: MrM-MW-1

Report Date: 02/09/09
Collection Date: 01/22/09 09:36
DateReceived: 01/22/09
Matrix: Aqueous

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-005
Client Sample ID: MrM-MW-HW

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.5	s.u.		0.1		A4500-H B	01/23/09 14:43 / hm
Conductivity	837	umhos/cm		1		A2510 B	01/23/09 14:55 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:58 / eli-b1
Chloride	8	mg/L		1		E300.0	01/26/09 16:58 / hm
Sulfate	34	mg/L		1		E300.0	01/26/09 16:58 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 13:10 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 05:19 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 05:19 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 20:19 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 05:19 / eli-b
Chromium	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 20:19 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 20:19 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 05:19 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 05:19 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 05:19 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 20:19 / eli-b
Zinc	0.03	mg/L		0.01		E200.8	01/30/09 05:19 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

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ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-005
Client Sample ID: MrM-MW-HW

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:50 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 13:50 / abb
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	01/28/09 13:50 / abb

Report RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-005
Client Sample ID: MrM-MW-HW

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Surr: Dibromofluoromethane	97.0	%REC		70-130		SW8260B	01/28/09 13:50 / abb
Surr: p-Bromofluorobenzene	99.0	%REC		70-130		SW8260B	01/28/09 13:50 / abb
Surr: Toluene-d8	105	%REC		70-130		SW8260B	01/28/09 13:50 / abb

Report
Definitions: RL - Analyte reporting limit.
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QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 02/09/09

Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B Batch: 090123A-COND-PROBE-W										
Sample ID: LCS1_090123A	Laboratory Control Sample Run: COND_090122B 01/23/09 14:48									
Conductivity		1410	umhos/cm	1.0	100	90	110			
Sample ID: H09010168-003ADUP	Sample Duplicate Run: COND_090122B 01/23/09 14:52									
Conductivity		810	umhos/cm	1.0				0.6	10	
Method: A4500-H B Batch: 090123A-PH-W										
Sample ID: LCS1_090123A	Laboratory Control Sample Run: PH_090123A 01/23/09 14:27									
pH		7.02	s.u.	0.10	100	99	101			
Sample ID: H09010168-003ADUP	Sample Duplicate Run: PH_090123A 01/23/09 14:33									
pH		7.50	s.u.	0.10				0.1	2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

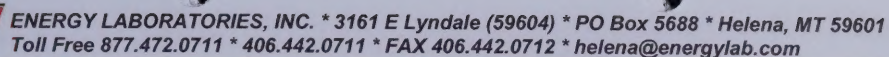
Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Sample ID: ICV 5 Continuing Calibration Verification Standard										
Analytical Run: SUB-B123963										01/26/09 11:41
Beryllium		1.26	mg/L	0.010	101	95	105			
Chromium		2.54	mg/L	0.050	102	95	105			
Cobalt		2.41	mg/L	0.020	97	95	105			
Iron		2.50	mg/L	0.030	100	95	105			
Vanadium		2.47	mg/L	0.10	99	95	105			
Method: E200.7										
Sample ID: MB-TJADIS090126A 5 Method Blank										
Run: SUB-B123963										Batch: B_R123963
										01/26/09 12:08
Beryllium		ND	mg/L	0.0002						
Chromium		ND	mg/L	0.004						
Cobalt		ND	mg/L	0.003						
Iron		ND	mg/L	0.005						
Vanadium		ND	mg/L	0.006						
Sample ID: LFB-TJADIS090126A 5 Laboratory Fortified Blank										
Run: SUB-B123963										01/26/09 12:12
Beryllium		0.523	mg/L	0.010	105	85	115			
Chromium		1.03	mg/L	0.050	103	85	115			
Cobalt		0.990	mg/L	0.020	99	85	115			
Iron		5.09	mg/L	0.030	102	85	115			
Vanadium		0.993	mg/L	0.10	99	85	115			
Sample ID: H09010168-004C 5 Sample Matrix Spike										
Run: SUB-B123963										01/26/09 20:04
Beryllium		0.975	mg/L	0.0010	97	70	130			
Chromium		2.07	mg/L	0.010	103	70	130			
Cobalt		1.96	mg/L	0.010	98	70	130			
Iron		9.88	mg/L	0.030	99	70	130			
Vanadium		1.87	mg/L	0.10	94	70	130			
Sample ID: H09010168-004C 5 Sample Matrix Spike Duplicate										
Run: SUB-B123963										01/26/09 20:08
Beryllium		0.983	mg/L	0.0010	98	70	130	0.8	20	
Chromium		2.09	mg/L	0.010	105	70	130	1.1	20	
Cobalt		1.99	mg/L	0.010	99	70	130	1.4	20	
Iron		9.99	mg/L	0.030	100	70	130	1.1	20	
Vanadium		1.91	mg/L	0.10	95	70	130	1.9	20	
Sample ID: B09011727-001BMS2 5 Sample Matrix Spike										
Run: SUB-B123963										01/26/09 20:31
Beryllium		0.50	mg/L	0.0010	100	70	130			
Chromium		1.1	mg/L	0.010	108	70	130			
Cobalt		1.0	mg/L	0.010	102	70	130			
Iron		5.2	mg/L	0.030	103	70	130			
Vanadium		0.96	mg/L	0.10	96	70	130			
Sample ID: B09011727-001BMSD 5 Sample Matrix Spike Duplicate										
Run: SUB-B123963										01/26/09 20:35
Beryllium		0.49	mg/L	0.0010	98	70	130	2.5	20	
Chromium		1.1	mg/L	0.010	107	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Sample ID: QCS - 081021A,08112 13 Initial Calibration Verification Standard										
Analytical Run: SUB-B124140										01/29/09 22:55
Antimony		0.050	mg/L	0.050	101	90	110			
Arsenic		0.051	mg/L	0.0050	101	90	110			
Barium		0.050	mg/L	0.10	100	90	110			
Cadmium		0.025	mg/L	0.0010	100	90	110			
Chromium		0.051	mg/L	0.010	102	90	110			
Copper		0.050	mg/L	0.010	100	90	110			
Lead		0.051	mg/L	0.010	101	90	110			
Mercury		0.0019	mg/L	0.0010	97	90	110			
Nickel		0.051	mg/L	0.010	101	90	110			
Selenium		0.052	mg/L	0.0050	103	90	110			
Silver		0.025	mg/L	0.0050	101	90	110			
Thallium		0.052	mg/L	0.10	104	90	110			
Zinc		0.050	mg/L	0.010	101	90	110			
Method: E200.8										
Sample ID: LRB 13 Method Blank										
Run: SUB-B124140										Batch: B_R124140
										01/29/09 13:19
Antimony		3E-05	mg/L	1E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Cadmium		2E-05	mg/L	9E-06						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	8E-06						
Mercury		ND	mg/L	1E-05						
Nickel		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0001						
Silver		6E-05	mg/L	3E-05						
Thallium		ND	mg/L	7E-06						
Zinc		0.0007	mg/L	3E-05						
Sample ID: LFB 13 Laboratory Fortified Blank										
Run: SUB-B124140										01/29/09 13:27
Antimony		0.048	mg/L	0.050	95	85	115			
Arsenic		0.049	mg/L	0.0050	98	85	115			
Barium		0.048	mg/L	0.10	97	85	115			
Cadmium		0.048	mg/L	0.0010	95	85	115			
Chromium		0.050	mg/L	0.010	100	85	115			
Copper		0.049	mg/L	0.010	98	85	115			
Lead		0.049	mg/L	0.010	99	85	115			
Mercury		0.0010	mg/L	0.0010	102	85	115			
Nickel		0.049	mg/L	0.010	98	85	115			
Selenium		0.049	mg/L	0.0050	98	85	115			
Silver		0.018	mg/L	0.0050	91	85	115			
Thallium		0.049	mg/L	0.10	98	85	115			
Zinc		0.051	mg/L	0.010	100	85	115			

Qualifiers:

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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: B_R124140
Sample ID: LFB	13	Laboratory Fortified Blank			Run: SUB-B124140			01/29/09 13:27		
Sample ID: B09011778-002BMS	13	Sample Matrix Spike			Run: SUB-B124140			01/30/09 07:38		
Antimony		0.0506	mg/L	0.0050	101	70	130			
Arsenic		0.0562	mg/L	0.0050	112	70	130			
Barium		1.01	mg/L	0.10		70	130			A
Cadmium		0.0463	mg/L	0.0010	93	70	130			
Chromium		0.0586	mg/L	0.010	116	70	130			
Copper		0.0457	mg/L	0.010	78	70	130			
Lead		0.0489	mg/L	0.010	98	70	130			
Mercury		0.00102	mg/L	0.0010	102	70	130			
Nickel		0.0502	mg/L	0.010	90	70	130			
Selenium		0.0553	mg/L	0.0050	110	70	130			
Silver		0.0176	mg/L	0.0050	88	70	130			
Thallium		0.0506	mg/L	0.0050	101	70	130			
Zinc		0.0419	mg/L	0.010	84	70	130			
Sample ID: B09011778-002BMSD	13	Sample Matrix Spike Duplicate			Run: SUB-B124140			01/30/09 07:46		
Antimony		0.0509	mg/L	0.0050	102	70	130	0.6	20	
Arsenic		0.0570	mg/L	0.0050	113	70	130	1.5	20	
Barium		1.00	mg/L	0.10		70	130	0.7	20	A
Cadmium		0.0463	mg/L	0.0010	93	70	130	0	20	
Chromium		0.0604	mg/L	0.010	120	70	130	3	20	
Copper		0.0450	mg/L	0.010	76	70	130	1.4	20	
Lead		0.0485	mg/L	0.010	97	70	130	0.6	20	
Mercury		0.00100	mg/L	0.0010	100	70	130	1.6	20	
Nickel		0.0499	mg/L	0.010	89	70	130	0.8	20	
Selenium		0.0565	mg/L	0.0050	113	70	130	2.3	20	
Silver		0.0178	mg/L	0.0050	89	70	130	0.8	20	
Thallium		0.0504	mg/L	0.0050	101	70	130	0.5	20	
Zinc		0.0419	mg/L	0.010	84	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: IC101-H_090126A										
Sample ID: CCV	2	Continuing Calibration Verification Standard								01/26/09 13:05
Chloride		24	mg/L	1.0	96	90	110			
Sulfate		100	mg/L	1.0	101	90	110			
Sample ID: ICV	2	Initial Calibration Verification Standard								01/26/09 13:25
Chloride		24	mg/L	1.0	95	90	110			
Sulfate		100	mg/L	1.0	100	90	110			
Method: E300.0										
Batch: R51598										
Sample ID: LCS	2	Laboratory Control Sample				Run: IC101-H_090126A			01/26/09 13:44	
Chloride		92	mg/L	1.0	106	90	110			
Sulfate		27	mg/L	1.0	91	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC101-H_090126A			01/26/09 14:04	
Chloride		9.2	mg/L	1.0	92	90	110			
Sulfate		37	mg/L	1.0	91	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC101-H_090126A			01/26/09 14:23	
Chloride		ND	mg/L							
Sulfate		0.5	mg/L							
Sample ID: H09010168-001A MS	2	Sample Matrix Spike				Run: IC101-H_090126A			01/26/09 15:21	
Chloride		75	mg/L	1.0	105	90	110			
Sulfate		100	mg/L	1.0	101	90	110			
Sample ID: H09010168-001A MSD	2	Sample Matrix Spike Duplicate				Run: IC101-H_090126A			01/26/09 15:41	
Chloride		75	mg/L	1.0	103	90	110	0.6	20	
Sulfate		100	mg/L	1.0	100	90	110	1.2	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2		Analytical Run: NUTRIENTS_090129B								
Sample ID: ICV-1		Initial Calibration Verification Standard								01/29/09 12:12
Nitrogen, Nitrate+Nitrite as N		1.010	mg/L	0.050	101	90	110			
Sample ID: CCV-4		Continuing Calibration Verification Standard								01/29/09 12:18
Nitrogen, Nitrate+Nitrite as N		0.5000	mg/L	0.050	100	90	110			
Sample ID: CCV-25		Continuing Calibration Verification Standard								01/29/09 13:00
Nitrogen, Nitrate+Nitrite as N		0.4700	mg/L	0.050	94	90	110			
Method: E353.2		Batch: A2009-01-29_5_NO3_01								
Sample ID: LCS-2		Laboratory Control Sample				Run: NUTRIENTS_090129B		01/29/09 12:14		
Nitrogen, Nitrate+Nitrite as N		15.60	mg/L	0.095	103	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank				Run: NUTRIENTS_090129B		01/29/09 12:16		
Nitrogen, Nitrate+Nitrite as N		0.5300	mg/L	0.050	106	90	110			
Sample ID: MBLK-7		Method Blank				Run: NUTRIENTS_090129B		01/29/09 12:24		
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.010						
Sample ID: H09010167-001AMS		Sample Matrix Spike				Run: NUTRIENTS_090129B		01/29/09 12:42		
Nitrogen, Nitrate+Nitrite as N		1.54	mg/L	0.050	86	90	110			S
Sample ID: H09010167-001AMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_090129B		01/29/09 12:44		
Nitrogen, Nitrate+Nitrite as N		1.55	mg/L	0.050	87	90	110	0.6	20	S
Sample ID: H09010168-004BMS		Sample Matrix Spike				Run: NUTRIENTS_090129B		01/29/09 13:06		
Nitrogen, Nitrate+Nitrite as N		0.9100	mg/L	0.050	90	90	110			
Sample ID: H09010168-004BMSD		Sample Matrix Spike Duplicate				Run: NUTRIENTS_090129B		01/29/09 13:08		
Nitrogen, Nitrate+Nitrite as N		0.9300	mg/L	0.050	92	90	110	2.2	20	
Method: E410.4										Batch: R51678
Sample ID: MB-R51678		Method Blank				Run: SPECTRO_090202A		02/02/09 00:00		
Oxygen Demand, Chemical (COD)		ND	mg/L							
Sample ID: LCS-R51678		Laboratory Control Sample				Run: SPECTRO_090202A		02/02/09 00:00		
Oxygen Demand, Chemical (COD)		310	mg/L	1.0	104	90	110			
Sample ID: H09010168-005BMS		Sample Matrix Spike				Run: SPECTRO_090202A		02/02/09 00:00		
Oxygen Demand, Chemical (COD)		50	mg/L	1.0	101	90	110			
Sample ID: H09010168-005BMSD		Sample Matrix Spike Duplicate				Run: SPECTRO_090202A		02/02/09 00:00		
Oxygen Demand, Chemical (COD)		51	mg/L	1.0	101	90	110	0.6	20	
Sample ID: H09010162-001BDUP		Sample Duplicate				Run: SPECTRO_090202A		02/02/09 00:00		
Oxygen Demand, Chemical (COD)		25	mg/L	1.0				2.3	20	

Qualifiers:

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S - Spike recovery outside of advisory limits.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod										
Analytical Run: SUB-B123915										
Sample ID: ICV-1	Initial Calibration Verification Standard									
Cyanide, Total		0.154	mg/L	0.0050	102	90	110			01/26/09 10:07
Method: Kelada mod										
Batch: B_R123915										
Sample ID: LFB-2	Laboratory Fortified Blank									
Cyanide, Total		0.110	mg/L	0.0050	110	90	110			01/26/09 10:08
Run: SUB-B123915										
Sample ID: MBLK-3	Method Blank									
Cyanide, Total		ND	mg/L	0.003						01/26/09 10:11
Run: SUB-B123915										
Sample ID: B09011682-001EMS	Sample Matrix Spike									
Cyanide, Total		0.106	mg/L	0.0050	106	90	110			01/26/09 10:14
Run: SUB-B123915										
Sample ID: B09011682-001EMSD	Sample Matrix Spike Duplicate									
Cyanide, Total		0.104	mg/L	0.0050	104	90	110			01/26/09 10:16
Run: SUB-B123915										
Sample ID: B09011780-001CMS	Sample Matrix Spike									
Cyanide, Total		0.111	mg/L	0.0050	111	90	110			01/26/09 12:12 S
Run: SUB-B123915										
Sample ID: B09011780-001CMSD	Sample Matrix Spike Duplicate									
Cyanide, Total		0.115	mg/L	0.0050	115	90	110			01/26/09 12:14 S
Run: SUB-B123915										

Qualifiers:

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ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ

Project: Mister M Landfill

Report Date: 02/09/09

Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Analytical Run: 1SATURN_090128A								
Sample ID: CCV012809A		54 Continuing Calibration Verification Standard								
		01/28/09 10:52								
Acetone		48.8	ug/L	20	98	70	130			
Acrylonitrile		53.6	ug/L	20	107	70	130			
Benzene		4.96	ug/L	1.0	99	70	130			
Bromochloromethane		5.32	ug/L	1.0	106	70	130			
Bromodichloromethane		4.80	ug/L	1.0	96	70	130			
Bromoform		4.88	ug/L	1.0	98	70	130			
Bromomethane		4.60	ug/L	1.0	92	70	130			
Carbon disulfide		5.00	ug/L	1.0	100	70	130			
Carbon tetrachloride		5.20	ug/L	1.0	104	70	130			
Chlorobenzene		5.16	ug/L	1.0	103	70	130			
Chlorodibromomethane		4.92	ug/L	1.0	98	70	130			
Chloroethane		4.72	ug/L	1.0	94	70	130			
Chloroform		5.20	ug/L	1.0	104	80	120			
Chloromethane		5.04	ug/L	1.0	101	70	130			
1,2-Dibromo-3-chloropropane		5.24	ug/L	1.0	105	70	130			
1,2-Dibromoethane		4.92	ug/L	1.0	98	70	130			
Dibromomethane		4.88	ug/L	1.0	98	70	130			
1,2-Dichlorobenzene		4.88	ug/L	1.0	98	70	130			
1,4-Dichlorobenzene		4.96	ug/L	1.0	99	70	130			
trans-1,4-Dichloro-2-butene		5.04	ug/L	1.0	101	70	130			
Dichlorodifluoromethane		4.96	ug/L	1.0	99	70	130			
1,1-Dichloroethane		4.84	ug/L	1.0	97	70	130			
1,2-Dichloroethane		5.44	ug/L	1.0	109	70	130			
1,1-Dichloroethene		4.88	ug/L	1.0	98	80	120			
cis-1,2-Dichloroethene		5.20	ug/L	1.0	104	70	130			
trans-1,2-Dichloroethene		4.96	ug/L	1.0	99	70	130			
1,2-Dichloropropane		4.76	ug/L	1.0	95	80	120			
cis-1,3-Dichloropropene		4.88	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		5.04	ug/L	1.0	101	70	130			
Ethylbenzene		5.00	ug/L	1.0	100	80	120			
2-Hexanone		50.0	ug/L	20	100	70	130			
Iodomethane		4.84	ug/L	1.0	97	70	130			
Methyl ethyl ketone		56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone		48.8	ug/L	20	98	70	130			
Methylene chloride		4.92	ug/L	1.0	98	70	130			
Styrene		5.20	ug/L	1.0	104	70	130			
1,1,1,2-Tetrachloroethane		4.80	ug/L	1.0	96	70	130			
1,1,2,2-Tetrachloroethane		4.64	ug/L	1.0	93	70	130			
Tetrachloroethene		5.28	ug/L	1.0	106	70	130			
Toluene		4.96	ug/L	1.0	99	80	120			
1,1,1-Trichloroethane		5.20	ug/L	1.0	104	70	130			
1,1,2-Trichloroethane		5.20	ug/L	1.0	104	70	130			
Trichloroethene		4.76	ug/L	1.0	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Analytical Run: 1SATURN_090128A
Sample ID: CCV012809A	54	Continuing Calibration Verification Standard								01/28/09 10:52
Trichlorofluoromethane		5.08	ug/L	1.0	102	70	130			
1,2,3-Trichloropropane		4.64	ug/L	1.0	93	70	130			
Vinyl acetate		5.48	ug/L	1.0	110	70	130			
Vinyl chloride		4.56	ug/L	1.0	91	80	120			
m+p-Xylenes		10.2	ug/L	1.0	102	70	130			
o-Xylene		5.20	ug/L	1.0	104	70	130			
Xylenes, Total		15.4	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	104	70	130			
Surr: Dibromofluoromethane				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	100	70	130			
Surr: Toluene-d8				1.0	104	70	130			
Method: SW8260B										Batch: R51632
Sample ID: LCS012809A	54	Laboratory Control Sample								Run: 1SATURN_090128A
Acetone		36.5	ug/L	20	73	70	130			01/28/09 11:36
Acrylonitrile		45.2	ug/L	20	90	70	130			
Benzene		4.40	ug/L	1.0	88	70	130			
Bromochloromethane		5.04	ug/L	1.0	101	70	130			
Bromodichloromethane		4.52	ug/L	1.0	90	70	130			
Bromoform		4.48	ug/L	1.0	90	70	130			
Bromomethane		4.24	ug/L	1.0	85	70	130			
Carbon disulfide		5.00	ug/L	1.0	100	70	130			
Carbon tetrachloride		4.92	ug/L	1.0	98	70	130			
Chlorobenzene		5.04	ug/L	1.0	101	70	130			
Chlorodibromomethane		4.56	ug/L	1.0	91	70	130			
Chloroethane		4.56	ug/L	1.0	91	70	130			
Chloroform		4.72	ug/L	1.0	94	70	130			
Chloromethane		5.00	ug/L	1.0	100	70	130			
1,2-Dibromo-3-chloropropane		4.60	ug/L	1.0	92	70	130			
1,2-Dibromoethane		4.44	ug/L	1.0	89	70	130			
Dibromomethane		4.32	ug/L	1.0	86	70	130			
1,2-Dichlorobenzene		4.84	ug/L	1.0	97	70	130			
1,4-Dichlorobenzene		5.12	ug/L	1.0	102	70	130			
trans-1,4-Dichloro-2-butene		5.08	ug/L	1.0	102	70	130			
Dichlorodifluoromethane		5.12	ug/L	1.0	102	70	130			
1,1-Dichloroethane		4.88	ug/L	1.0	98	70	130			
1,2-Dichloroethane		4.96	ug/L	1.0	99	70	130			
1,1-Dichloroethene		5.12	ug/L	1.0	102	70	130			
cis-1,2-Dichloroethene		4.96	ug/L	1.0	99	70	130			
trans-1,2-Dichloroethene		5.04	ug/L	1.0	101	70	130			
1,2-Dichloropropane		4.60	ug/L	1.0	92	70	130			
cis-1,3-Dichloropropene		4.92	ug/L	1.0	98	70	130			
trans-1,3-Dichloropropene		4.40	ug/L	1.0	88	70	130			
Ethylbenzene		4.80	ug/L	1.0	96	70	130			

Qualifiers:

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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R51632								
Sample ID: LCS012809A	54	Laboratory Control Sample		Run: 1SATURN_090128A		01/28/09 11:36				
2-Hexanone		48.4	ug/L	20	97	70	130			
Iodomethane		4.76	ug/L	1.0	95	70	130			
Methyl ethyl ketone		47.6	ug/L	20	95	70	130			
Methyl isobutyl ketone		44.0	ug/L	20	88	70	130			
Methylene chloride		4.56	ug/L	1.0	91	70	130			
Styrene		5.20	ug/L	1.0	104	70	130			
1,1,1,2-Tetrachloroethane		4.84	ug/L	1.0	97	70	130			
1,1,2,2-Tetrachloroethane		4.36	ug/L	1.0	87	70	130			
Tetrachloroethene		5.16	ug/L	1.0	103	70	130			
Toluene		4.72	ug/L	1.0	94	70	130			
1,1,1-Trichloroethane		5.04	ug/L	1.0	101	70	130			
1,1,2-Trichloroethane		4.72	ug/L	1.0	94	70	130			
Trichloroethene		4.88	ug/L	1.0	98	70	130			
Trichlorofluoromethane		5.24	ug/L	1.0	105	70	130			
1,2,3-Trichloropropane		5.00	ug/L	1.0	100	70	130			
Vinyl acetate		4.40	ug/L	1.0	88	70	130			
Vinyl chloride		4.60	ug/L	1.0	92	70	130			
m+p-Xylenes		10.4	ug/L	1.0	104	70	130			
o-Xylene		5.04	ug/L	1.0	101	70	130			
Xylenes, Total		15.4	ug/L	1.0	103	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	95	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	98	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: MB012809A	54	Method Blank		Run: 1SATURN_090128A		01/28/09 12:51				
Acetone		ND	ug/L	20						
Acrylonitrile		ND	ug/L	20						
Benzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon disulfide		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Sample ID: MB012809A	54	Method Blank				Run: 1SATURN_090128A			Batch: R51632	
1,4-Dichlorobenzene		ND	ug/L	1.0					01/28/09 12:51	
trans-1,4-Dichloro-2-butene		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
2-Hexanone		ND	ug/L	20						
Iodomethane		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	20						
Methyl isobutyl ketone		ND	ug/L	20						
Methylene chloride		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
Vinyl acetate		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	95	70	130			
Surr: Dibromofluoromethane				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	94	70	130			
Surr: Toluene-d8				1.0	101	70	130			
Sample ID: H09010159-002AMS	54	Sample Matrix Spike				Run: 1SATURN_090128A			01/28/09 18:21	
Acetone		78.8	ug/L	40	79	70	130			
Acrylonitrile		91.2	ug/L	40	91	70	130			
Benzene		9.04	ug/L	2.0	90	70	130			
Bromochloromethane		10.7	ug/L	2.0	107	70	130			
Bromodichloromethane		10.2	ug/L	2.0	102	70	130			
Bromoform		10.1	ug/L	2.0	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B		Batch: R51632								
Sample ID: H09010159-002AMS		54 Sample Matrix Spike				Run: 1SATURN_090128A				01/28/09 18:21
Bromomethane		10.2	ug/L	2.0	102	70	130			
Carbon disulfide		9.92	ug/L	2.0	99	70	130			
Carbon tetrachloride		10.4	ug/L	2.0	104	70	130			
Chlorobenzene		11.1	ug/L	2.0	111	70	130			
Chlorodibromomethane		10.3	ug/L	2.0	103	70	130			
Chloroethane		8.72	ug/L	2.0	87	70	130			
Chloroform		9.92	ug/L	2.0	99	70	130			
Chloromethane		9.04	ug/L	2.0	90	70	130			
1,2-Dibromo-3-chloropropane		10.4	ug/L	2.0	104	70	130			
1,2-Dibromoethane		10.5	ug/L	2.0	105	70	130			
Dibromomethane		9.92	ug/L	2.0	99	70	130			
1,2-Dichlorobenzene		10.3	ug/L	2.0	103	70	130			
1,4-Dichlorobenzene		11.0	ug/L	2.0	110	70	130			
trans-1,4-Dichloro-2-butene		10.9	ug/L	2.0	109	70	130			
Dichlorodifluoromethane		8.88	ug/L	2.0	89	70	130			
1,1-Dichloroethane		15.6	ug/L	2.0	97	70	130			
1,2-Dichloroethane		10.2	ug/L	2.0	102	70	130			
1,1-Dichloroethene		10.9	ug/L	2.0	106	70	130			
cis-1,2-Dichloroethene		10.4	ug/L	2.0	104	70	130			
trans-1,2-Dichloroethene		10.9	ug/L	2.0	109	70	130			
1,2-Dichloropropane		10.6	ug/L	2.0	106	70	130			
cis-1,3-Dichloropropene		10.1	ug/L	2.0	101	70	130			
trans-1,3-Dichloropropene		9.76	ug/L	2.0	98	70	130			
Ethylbenzene		10.6	ug/L	2.0	106	70	130			
2-Hexanone		102	ug/L	40	102	70	130			
Iodomethane		9.44	ug/L	2.0	94	70	130			
Methyl ethyl ketone		109	ug/L	40	109	70	130			
Methyl isobutyl ketone		103	ug/L	40	103	70	130			
Methylene chloride		9.44	ug/L	2.0	94	70	130			
Styrene		11.6	ug/L	2.0	116	70	130			
1,1,1,2-Tetrachloroethane		11.3	ug/L	2.0	113	70	130			
1,1,2,2-Tetrachloroethane		9.52	ug/L	2.0	95	70	130			
Tetrachloroethene		11.0	ug/L	2.0	110	70	130			
Toluene		10.7	ug/L	2.0	107	70	130			
1,1,1-Trichloroethane		10.5	ug/L	2.0	105	70	130			
1,1,2-Trichloroethane		11.3	ug/L	2.0	113	70	130			
Trichloroethene		10.9	ug/L	2.0	109	70	130			
Trichlorofluoromethane		9.52	ug/L	2.0	95	70	130			
1,2,3-Trichloropropane		10.2	ug/L	2.0	102	70	130			
Vinyl acetate		10.9	ug/L	2.0	109	70	130			
Vinyl chloride		8.72	ug/L	2.0	87	70	130			
m+p-Xylenes		22.6	ug/L	2.0	113	70	130			
o-Xylene		11.5	ug/L	2.0	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										
Batch: R51632										
Sample ID: H09010159-002AMS 54 Sample Matrix Spike										
Run: 1SATURN_090128A										
01/28/09 18:21										
Xylenes, Total		34.2	ug/L	2.0	114	70	130			
Surr: 1,2-Dichloroethane-d4				2.0	100	70	130			
Surr: Dibromofluoromethane				2.0	92	70	130			
Surr: p-Bromofluorobenzene				2.0	93	70	130			
Surr: Toluene-d8				2.0	103	70	130			
Sample ID: H09010159-002AMSD 54 Sample Matrix Spike Duplicate										
Run: 1SATURN_090128A										
01/28/09 18:50										
Acetone		91.2	ug/L	40	91	70	130	15	20	
Acrylonitrile		102	ug/L	40	102	70	130	11	20	
Benzene		11.0	ug/L	2.0	110	70	130	20	20	
Bromochloromethane		11.3	ug/L	2.0	113	70	130	5.1	20	
Bromodichloromethane		9.52	ug/L	2.0	95	70	130	6.5	20	
Bromoform		8.96	ug/L	2.0	90	70	130	12	20	
Bromomethane		11.2	ug/L	2.0	112	70	130	9.7	20	
Carbon disulfide		11.0	ug/L	2.0	110	70	130	10	20	
Carbon tetrachloride		11.0	ug/L	2.0	110	70	130	6	20	
Chlorobenzene		10.1	ug/L	2.0	101	70	130	9.8	20	
Chlorodibromomethane		9.36	ug/L	2.0	94	70	130	9.8	20	
Chloroethane		10.1	ug/L	2.0	101	70	130	14	20	
Chloroform		10.6	ug/L	2.0	106	70	130	7	20	
Chloromethane		9.84	ug/L	2.0	98	70	130	8.5	20	
1,2-Dibromo-3-chloropropane		9.68	ug/L	2.0	97	70	130	7.2	20	
1,2-Dibromoethane		9.68	ug/L	2.0	97	70	130	7.9	20	
Dibromomethane		9.28	ug/L	2.0	93	70	130	6.7	20	
1,2-Dichlorobenzene		10.9	ug/L	2.0	109	70	130	5.3	20	
1,4-Dichlorobenzene		11.0	ug/L	2.0	110	70	130	0	20	
trans-1,4-Dichloro-2-butene		11.0	ug/L	2.0	110	70	130	0.7	20	
Dichlorodifluoromethane		10.2	ug/L	2.0	102	70	130	13	20	
1,1-Dichloroethane		15.9	ug/L	2.0	100	70	130	2	20	
1,2-Dichloroethane		11.0	ug/L	2.0	110	70	130	7.5	20	
1,1-Dichloroethene		11.2	ug/L	2.0	109	70	130	2.9	20	
cis-1,2-Dichloroethene		10.8	ug/L	2.0	108	70	130	3.8	20	
trans-1,2-Dichloroethene		10.7	ug/L	2.0	107	70	130	1.5	20	
1,2-Dichloropropane		9.60	ug/L	2.0	96	70	130	10	20	
cis-1,3-Dichloropropene		9.52	ug/L	2.0	95	70	130	5.7	20	
trans-1,3-Dichloropropene		9.52	ug/L	2.0	95	70	130	2.5	20	
Ethylbenzene		10.0	ug/L	2.0	100	70	130	5.4	20	
2-Hexanone		92.8	ug/L	40	93	70	130	9.1	20	
Iodomethane		10.3	ug/L	2.0	103	70	130	8.9	20	
Methyl ethyl ketone		106	ug/L	40	106	70	130	2.2	20	
Methyl isobutyl ketone		96.0	ug/L	40	96	70	130	7.2	20	
Methylene chloride		10.3	ug/L	2.0	103	70	130	8.9	20	
Styrene		10.1	ug/L	2.0	101	70	130	14	20	
1,1,1,2-Tetrachloroethane		10.8	ug/L	2.0	108	70	130	4.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: MT DEQ
Project: Mister M Landfill

Report Date: 02/09/09
Work Order: H09010168

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R51632
Sample ID: H09010159-002AMSD 54 Sample Matrix Spike Duplicate										Run: 1SATURN_090128A 01/28/09 18:50
1,1,2,2-Tetrachloroethane		9.36	ug/L	2.0	94	70	130	1.7		20
Tetrachloroethene		10.3	ug/L	2.0	103	70	130	6.7		20
Toluene		10.2	ug/L	2.0	102	70	130	4.6		20
1,1,1-Trichloroethane		11.2	ug/L	2.0	112	70	130	6.6		20
1,1,2-Trichloroethane		9.60	ug/L	2.0	96	70	130	16		20
Trichloroethene		10.2	ug/L	2.0	102	70	130	6.1		20
Trichlorofluoromethane		10.4	ug/L	2.0	104	70	130	8.8		20
1,2,3-Trichloropropane		10.7	ug/L	2.0	107	70	130	5.4		20
Vinyl acetate		11.6	ug/L	2.0	116	70	130	6.4		20
Vinyl chloride		9.60	ug/L	2.0	96	70	130	9.6		20
m+p-Xylenes		21.2	ug/L	2.0	106	70	130	6.6		20
o-Xylene		11.0	ug/L	2.0	110	70	130	5		20
Xylenes, Total		32.2	ug/L	2.0	107	70	130	6		20
Surr: 1,2-Dichloroethane-d4				2.0	106	70	130	0		20
Surr: Dibromofluoromethane				2.0	105	70	130	0		20
Surr: p-Bromofluorobenzene				2.0	97	70	130	0		20
Surr: Toluene-d8				2.0	98	70	130	0		20

Method: SW8260B										Analytical Run: 1SATURN_090129A
Sample ID: CCV012909A 5 Continuing Calibration Verification Standard										01/29/09 11:20
Chloroform		5.20	ug/L	1.0	104	80	120			
Surr: 1,2-Dichloroethane-d4				1.0	94	70	130			
Surr: Dibromofluoromethane				1.0	84	70	130			
Surr: p-Bromofluorobenzene				1.0	87	70	130			
Surr: Toluene-d8				1.0	95	70	130			

Method: SW8260B										Batch: R51636
Sample ID: LCS012909A 5 Laboratory Control Sample										Run: 1SATURN_090129A 01/29/09 12:01
Chloroform		5.56	ug/L	1.0	111	70	130			
Surr: 1,2-Dichloroethane-d4				1.0	97	70	130			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	93	70	130			
Surr: Toluene-d8				1.0	99	70	130			

Sample ID: MB012909A 5 Method Blank										Run: 1SATURN_090129A 01/29/09 13:19
Chloroform		ND	ug/L	1.0						
Surr: 1,2-Dichloroethane-d4				1.0	97	70	130			
Surr: Dibromofluoromethane				1.0	87	70	130			
Surr: p-Bromofluorobenzene				1.0	80	70	130			
Surr: Toluene-d8				1.0	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-004
Client Sample ID: MrM-MW-EB

Report Date: 02/09/09
Collection Date: 01/22/09 10:40
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	5.8	s.u.		0.1		A4500-H B	01/23/09 14:38 / hm
Conductivity	17	umhos/cm		1		A2510 B	01/23/09 14:54 / hm
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	01/26/09 10:56 / eli-b1
Chloride	ND	mg/L		1		E300.0	01/26/09 16:39 / hm
Sulfate	ND	mg/L		1		E300.0	01/26/09 16:39 / hm
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L		1		E410.4	02/02/09 00:00 / stp
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	01/29/09 13:04 / stp
METALS, DISSOLVED							
Antimony	ND	mg/L		0.05		E200.8	01/30/09 04:41 / eli-b
Arsenic	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Barium	ND	mg/L		0.1		E200.8	01/30/09 04:41 / eli-b
Beryllium	ND	mg/L		0.001		E200.7	01/26/09 20:00 / eli-b
Cadmium	ND	mg/L		0.001		E200.8	01/30/09 04:41 / eli-b
Chromium	ND	mg/L		0.01		E200.7	01/26/09 20:00 / eli-b
Cobalt	ND	mg/L		0.01		E200.7	01/26/09 20:00 / eli-b
Copper	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Iron	ND	mg/L		0.03		E200.7	01/26/09 20:00 / eli-b
Lead	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Mercury	ND	mg/L		0.001		E200.8	01/30/09 04:41 / eli-b
Nickel	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
Selenium	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Silver	ND	mg/L		0.005		E200.8	01/30/09 04:41 / eli-b
Thallium	ND	mg/L		0.1		E200.8	01/30/09 04:41 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	01/26/09 20:00 / eli-b
Zinc	ND	mg/L		0.01		E200.8	01/30/09 04:41 / eli-b
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromodichloromethane	0.89	ug/L	J	1.0		SW8260B	01/28/09 15:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

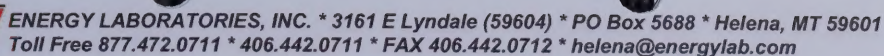
Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-004
Client Sample ID: MrM-MW-EB

Report Date: 02/09/09
Collection Date: 01/22/09 10:40
Date Received: 01/22/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Chloroform	22	ug/L		5.0		SW8260B	01/29/09 13:48 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 15:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 15:20 / abb
Surr: 1,2-Dichloroethane-d4	103	%REC		70-130		SW8260B	01/28/09 15:20 / abb

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-004
Client Sample ID: MrM-MW-EB

Report Date: 02/09/09
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ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@energylab.com

LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-006
Client Sample ID: Trip Blank TB111308(mc)(b)shp0237

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Acrylonitrile	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Benzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromochloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromodichloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromoform	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Bromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Carbon disulfide	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloroform	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Chloromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Dibromomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Ethylbenzene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
2-Hexanone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Iodomethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Methyl ethyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	01/28/09 13:20 / abb
Methylene chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Styrene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Tetrachloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Toluene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Trichloroethene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb

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LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Mister M Landfill
Lab ID: H09010168-006
Client Sample ID: Trip Blank TB111308(mc)(b)shp0237

Report Date: 02/09/09
Collection Date: 01/21/09 13:15
Date Received: 01/22/09
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Vinyl acetate	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Vinyl chloride	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
m+p-Xylenes	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
o-Xylene	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Xylenes, Total	ND	ug/L		1.0		SW8260B	01/28/09 13:20 / abb
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	01/28/09 13:20 / abb
Surr: Dibromofluoromethane	91.0	%REC		70-130		SW8260B	01/28/09 13:20 / abb
Surr: p-Bromofluorobenzene	100	%REC		70-130		SW8260B	01/28/09 13:20 / abb
Surr: Toluene-d8	111	%REC		70-130		SW8260B	01/28/09 13:20 / abb

Report
Definitions: RL - Analyte reporting limit.
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Energy Laboratories Inc

Workorder Receipt Checklist



H09010168

MT DEQ

Login completed by: Roxanne L. Tubbs

Date and Time Received: 1/22/2009 3:02 PM

Reviewed by: Kathy Wiegand

Received by: rlt

Reviewed Date: 1/23/2009 11:31:00 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature:	-0.6°C		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

